CONSTRUCTION NEWS

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RAILWAYS.

(✚ *Denotes a contract awarded.*)

MASSACHUSETTS—New York, New Haven & Hartford R. R.—Press advices state that improvements will be made by the city and railroad that will cost about $11,000,000. The matter is still in embryo state.

NEW YORK.—The application of the Buffalo, Rochester & Eastern R. R. Co. for authority to construct a double track railroad from Buffalo to Troy was finally submitted March 15 to the Public Service Commission for the second time, just two years and a day from the denial of its former application. Forty-five days, covering a period of 14 months, have been occupied in the hearings on this matter.

PENNSYLVANIA.—Baltimore & Ohio R. R. —It is proposed to change the gage of the line from Foxburg to Kane, from narrow to standard. This branch is about 90 miles long. A. W. Thompson, Baltimore, Md., is Chf. Engr.

NORTH CAROLINA.—Southern Ry.—Announcement has been made that several passing tracks will be built between Asheville and Morristown. See also Tennessee. W. H. Wells, Washington, D. C., is Ch. Engr. of Construction.

TENNESSEE.—Southern Ry. — Announcement has been made that several passing tracks will be built between Knoxville and Cleveland. See also North Carolina. W. H. Wells, Washington, D. C., is Ch. Engr. of Construction.

The contract for the first ten miles of new line from Greenville has been awarded, according to press reports, to Southern Bros. & Baird, Morristown, Tenn.

KENTUCKY.—A railroad from Brownsville, Tenn., to Paducah, Ky., is projected. A grade was made 41 years ago and has been lying idle ever since. It was graded from Brownsville to Friendship, a distance of 22 miles. The grade is badly washed and in some places it is all washed away. The land owners on this old right-of-way have deeded the grade to this company. The distance is about 120 miles. R. W. Riggins, Maury City, Tenn., is interested.

Louisville & Nashville R. R.—Press advices are to the effect that work will shortly be commenced on double tracking the Kentucky Central division, between Covington and Winchester, Ky., about 95 miles. W. H. Courtenay is Ch. Engr.

✚KENTUCKY.—Sandy Valley & Elkhorn Ry.—Press advices state that the contract has been let to **LANGHORNE & LANGHORNE**, Richmond, Va., for the construction of the Consolidation Coal Co.'s line of railroad from a connection with the Chesapeake & Ohio at the mouth of Shelby Creek, in Kentucky, to the head of Elkhorn Creek, 28 miles. The line follows the two streams named. The construction includes 38 bridges, varying in length from 100 ft. to 14 ft., all of single span steel girder construction. There will also be two tunnels through sand rock, each 18 × 21 ft. in dimensions, one of them 700 ft. long and the other 230 ft. long. The route lies through rough and rolling country. F. E. Englar, Pikeville, Ky., is Ch. Engr.

OHIO.—Baltimore & Ohio Southwestern R. R.—Plans are being made to double track those portions of the line between Cincinnati, Ohio, and Parkersburg, W. Va., which have not been done heretofore. The distance is about 200 miles. The work is under the direction of A. H. Griffith, Asst. Engr., who has opened an office in the Foulke Blk., Chillicothe, Ohio.

IOWA.—Charles City & Western R. R. Co. —The company proposes to build about 25 miles of road northeast from Charles City through New Haven, Riceville, Alta Vista, and Elma.

NORTH DAKOTA.—Great Northern Ry.—Work of construction on the cutoff between Ayr and Williston will be resumed this spring, according to press advices. About $5,000,000 will be spent in completing the work, which will shorten the main line about 35 miles. A. H. Hogeland, St. Paul, Minn., is Ch. Engr.

TEXAS.—Crystal City & Uvalde R. R.—This road is to be extended from Gardendale to a point about thirty miles east of there. E. Breaker, Crystal City, Tex., is Ch. Engr.

Press reports state that George W. West, situated near Oakville, has been trying to get a railroad through his property for 25 years. He first offered a bonus of $100,000 to any one who would build the line. Then he increased his offer to $200,000 and a few days ago he raised it to $350,000. At present the ranch is forty miles from the nearest railroad point.

✚MANITOBA.—Canadian Pacific Ry.—The Construction Department at Winnipeg has awarded the following contracts for grading, concrete, culverts and bridges on new branch lines and second track for 344 miles in the west as follows: **FOLEY, WELCH & STEWART**, St. Paul, Minn., two lines out of Swift Current, 80 miles, one line out of Moose Jaw, 35 miles; one line east from Lacombe, 60 miles. **JANSE, MACDONALD & CO.**, Calgary, Alta., two lines in British Columbia, 54 miles. **J. G. HARGRAVE**, Winnipeg, Man., second track west from Moose Jaw, 23 miles, and east 10 miles. **W. A. DUTTON**, Calgary, Alta., two lines in the vicinity of Golden, B. C., 82 miles. J. G. Sullivan is Asst. Ch. Engr., Winnipeg, Man.

WINNIPEG (NORTHERN).—Surveys are now being made for this line which is chartered to run from Winnipeg, Man., northerly along the east shore of Lake Winnipeg. George Frank, Selkirk, Man., is interested.

✚SASKATCHEWAN.—Canadian Pacific Ry. —The contract for a branch line to run from Estevan, Sask., to a point 55 miles west has been let to **J. D. MC ARTHUR**, Winnipeg, Man.

ELECTRIC RAILWAYS.

YONKERS, N. Y.—Yonkers R. R. Co. has applied to the Common Council for a new franchise. Permission is asked to lay an additional track in Yonkers Ave., and for a line in Nepperhan Ave. from Lake Ave. north to the city line. George J. Murphy, Main St., Yonkers, is Gen. Mgr.

OCEAN CITY, N. J.—Plans have been completed for a branch line of the Ocean City Electric R. R. from 34th St. to Beesley's Point. T. J. Duncan, 10th and West Ave., Ocean City, is Supt. and Electrical Engr.

BUTLER, PA.—The Pittsburg, Butler, Slippery Rock, Grove City & Northern Street Railway Co., which has just received its charter, will on June 1 begin active construction. The completion of the road will make possible the linking of this city with Buffalo, N. Y., Cleveland, O., and intermediate points continuously by trolley. The new line will be 66 miles long and will cost $3,500,000. Plans that have been drawn provide for the building of a spur between Butler and Grove City, Pa. From there it will be projected to Meadville, Pa., where it will join with the existing lines, having a connection with Erie, Pa., which is a terminus of trolley systems running to Cleveland and Buffalo. The railway will connect at Butler with lines plying between that point and this city. The right of way has been secured between Butler and Grove City, the portion of the road planned to be built first, about 26 miles. Estimated cost, about $1,500,000. The officers are Charles Gibson, Jr., Pres.; J. H. Barrett, Engr.; Julian Clark, Secy.; Dr. W. C. McCandless, of Butler, treas.; John Troutman, of Butler; John C. Kerr, Slippery Rock, Pa.; L. Forrester, of Slippery Rock, and William M. Galbraith, Pittsburg, are directors. Noted Feb. 16.

CORAOPOLIS, PA.—A new interurban line is projected which will connect Coraopolis and Monaca. Approximate cost, $500,000. The Aliquippa Business Men's Association and Messrs. Barrett and Gibson are promoters.

✚DELAWARE WATER GAP, PA.—The contract for five miles of trolley line from Castle Inn at Delaware Water Gap to Portland has been awarded to **E. P. ARBOGAST** by the Stroudsburg & Water Gap Street Ry. Co. The line will connect with the Liberty Bell Limited of the Lehigh Valley Transit line from Philadelphia, forming a complete trolley route from Philadelphia to the Water Gap. A. A. Holbrook, Stroudsburg, Pa., is Secy. and Gen. Mgr.

ERIE, PA.—Press reports state that J. M. Sherwin, Dorman Weaver, W. F. Burgess, Harry Schuwerk and Frank Brown, all of Erie, will apply to Governor Tener for a charter for a new trolley line, to be known as the Erie & Suburban Ry. Co. The new line will be operated by the Buffalo & Lake Erie Traction Co., but will have its separate organization. The railway is to be laid and constructed wholly upon the property of the Pennsylvania General Electric Co., and others in Millcreek and Harborcreek Townships, from East Lake Ave., in Millcreek Township, thence southeasterly to the Nagle Road.

LOCK HAVEN, PA.—George Roberts, of Harrisburg, Ch. Engr. of the Lock Haven & Jersey Shore Trolley Co., is in Lock Haven with an assistant, making a survey in Lockport from the river bridge eastward for a trolley line.

PHILADELPHIA, PA. — The new regime which will shortly assume control of the Philadelphia Rapid Transit Co., proposes to extend its line by connecting Germantown and Roxborough. The privilege has been obtained to use the Walnut Lane Bridge. The company will build an extension over the bridge from Johnson St. to Wayne Ave., and thence to Chelten.

CHARLESTON, W. VA.—A charter has been granted to the Steubenville, Wellsburg & Weirton R. R. Co. to construct a line to connect with the Tri-State Traction Co.'s line at the east end of the bridge owned by the Steubenville Bridge Co. in Brooke County, W. Va., thence to Weirton in Hancock County. The incorporators are: Frank D. Sinclair, Michael Keane, Jasper E. Wheaton, Albert G. Lee and Nelson D. Miller, all of Steubenville, Ohio.

CLARKSBURG, W. VA.—A new company is being organized to build a trolley line connecting Clarksburg, New Martinsville and Middlebourne. A charter will be applied for within a short time. T. Moore Jackson and his associates of this city are interested. T. Moore Jackson is also connected with the proposed line from Middlebourne to Sistersville, for which bonds will be voted upon by the county of Tyler within a short time.

✚CHARLOTTE, N. C.—The contract for the first link in the interurban line to be constructed by the Southern Power Co. has been awarded to **STEWART & JONES**, of Baltimore. The line will run from Charlotte to King's Mountain, about 35 miles. The bid was $400,000. The contract for constructing about 90 miles of line has been awarded to **WILLIAM J. OLIVER**, Knoxville, Tenn. It is proposed to complete and put in operation the entire line from Charlotte to Greenwood before work on the northern end of the system from Charlotte to Concord, Salisbury, Greensboro and Durham is started.

BIRMINGHAM, ALA.—The Birmingham & Edgewood Electric Ry. Co. has built a line to within one mile of the top of the Shade mountain and now active arrangements are being made to extend the line to Shade Cliff. G. L. Brazelton, 2014 First Ave., Birmingham, is Secy. and Treas.

CLEVELAND, OHIO.—Means of getting five new street railway routes and extensions will be taken up by the Chamber of Commerce traction committee at the request of the city and the Cleveland Ry. Co. The routes proposed are: Connection of the Harvard Ave. and Denison Ave. tracks across the valley to make a new East Side to West Side line; an extension of the West Madison Ave. line to give a new route to Rocky River; an entirely new route from Superior Ave. and W. 3d St., southeasterly through the flats; a route in Perkins Ave., from E. 9th St. to E. 40th St., and the extension of the Superior Ave. line to connect with Euclid Ave. Estimated cost, between $950,000 and $1,000,000.

JOLIET, ILL.—The contracts for grading and concrete work on the McKinley interurban line to connect Joliet and Morris have been awarded. The grading contract was awarded to **ANDREW WARD**, of Oak Glen, Cook County, to do all the work between Rockdale and Morris, a distance of 21 miles. **DRISCOLL & McCALMAN**, of Detroit, has the contract for the concrete abutments for bridges at Rock Run, over the Du Page River, at Aux Sable, the subway under the Elgin, Joliet & Eastern Ry. at Minooka and several small culverts. F. E. Fisher, Joliet, Ill., is Supt. of Constr.

TAMA, IOWA.—A line is projected from Tama to Waterloo, probably by way of Toledo and Traer. L. J. Tutt, Marshalltown, is interested.

BRECKENRIDGE, MINN.—The Wahpeton-Breckenridge Street Ry. Co. contemplates new lines as follows: From Breckenridge to Barnesville, following an old grade part of the way; a line to Rothsay, at the northwest corner of Otter Tail county and thence into this county through the Star Lake and Dead Lake region. Also a line southwest from Wahpeton to Hankinson. The country through which they will pass is level, with the exception of the section from Rothsay into the Otter Tail county lake region. Matthew Braun, Wahpeton, N. Dak., is Pres.

✚SIOUX FALLS, S. DAK.—A new line will be built and the surveys are being made by the Sioux Falls & Sioux City Electric Ry. Co., from Sioux Falls, S. Dak., to Sioux City, Iowa, about 90 miles. The road bed is for the most part level and there are but few openings to be bridged. **O. F. SPAETE**, Sioux Falls, has been awarded the general contract. J. Wolflin, Sioux Falls, S. Dak., is Supt.

MANSFIELD, MO.—Preliminary work is being mapped out by the Kansas City, Ozark & Southern Ry. Co., for an extension of its line between Mansfield and Ava through Laney county to a point on the White River. J. B. Quigley, Ava, is Ch. Engr.

DALLAS, TEX.—The Dallas Street Ry. Co. of Dallas has been organized for the purpose of maintaining and operating suburban railways. George W. Works, W. Leslie Williams and A. C. Moser are the incorporators.

CEDAREDGE, COLO.—The Uncompahgre & Gunnison Valley R. R. Co., recently organized for building an electric railway for handling both freight and passenger traffic in the Uncompahgre Valley, is planning to construct about 20 miles of track extending south from Cedaredge. I. N. Pepper, Montrose, is Vice-Pres. A power plant will be erected to operate the line and furnish light and heat for the territory along the route. The total cost will be about $750,000.

CORVALLIS, ORE.—The Corvallis & Alsea River Ry. has been taken over by the Portland, Eugene & Eastern Co. The line will be electrified, it is stated.

FRUITVALE, CAL.—Plans are being made by the Oakland Traction Co. to build a new electric railway on Redwood Road, extending from the foothills to East 14th St. Edward M. Boggs, 710 San Pablo Ave., Oakland, is Civil Engr.

QUEBEC, QUE.—Bids will be received until March 25 by the Quebec Railway, Light & Power Co., for construction of about three and a half miles of double track railway from Beauport to Kent House Park. Plans and other information may be obtained from C. E. A. Carr, Gen. Mgr., 140 St. John St.

LIGHT AND POWER PLANTS.

(**Denotes that this work is advertised in Engineering News.*)

BOSTON, MASS.—The Boston Elevated R. R. plans several miles of conduit in Roxbury and West Roxbury. Stone & Webster, 147 Milk St., will have charge of the work.

PROVIDENCE, R. I.—At a special meeting of the stockholders of the Narragansett Electric Lighting Company, held March 1, $750,000 was authorized for extensions and improvements. Arthur B. Lisle, Providence, R. I., is Gen Mgr.

SOUTH NORWALK, CONN. — A 1-story addition, 50 × 50 ft., will be built on to the power-house of the Housatonic Power Co. here. It will be of brick and reinforced concrete. Interior alterations will also be made in the present power-house. Plans are by the engineers of the New York, New Haven & Hartford R. R., of which Edward Gagel is Chief, at New Haven, Conn.

WATERTOWN, CONN.—The Watertown Gas Co., a company organized for the manufacture and sale of gas in this town, has applied to the State Legislature for a charter. The incorporators are Bennet C. Atwood, Harry H. Heminway, John L. Scott and Robert V. Magee, all of Watertown.

*ALBANY, N. Y.—Bids will be received by the Secy. of Trustees of Pub. Bldgs. in the Executive Chamber, Capitol, Albany, N. Y., pntil noon, April 20, for the equipment of the Capitol power-house and conduits at the corner of Sheridan Ave. and North Hawk St. A separate and distinct proposal is required for each of the following items of work: 1. For steam power equipment. 2. For electrical equipment. After March 25, drawings, specifications and blank forms of proposals may be obtained at the office of the State Arch., Albany, N. Y., and will be on file and may be inspected at the office of Nygren, Tenney & Ohmes, 87 Nassau St., New York City, or at the office of C. E. Knox, 76 William St., New York City, Consulting Engineers. Franklin B. Ware is State Arch.

*AUBURN, N. Y.—Bids will be received by Thomas H. O'Neill, Mayor, until 8 p. m., m., April 4, for the construction of subways, with necessary appurtenances and appliances in East Genesee St., from Owasco St. to Hunter Ave. The approximate quantities of the work are: 67,200 duct ft. of 16 duct tile, 25,800 duct ft. of 12 duct tile, 19700 lin. ft. of straight iron pipe laterials, 190 iron pipe bends, and 23 double manholes, including sewer connections. Plans, specifications, and additional information may be obtained from Elbert C. Aldrich, City Engr. J. S. Hanlon is City Clk.

CENTRAL ISLIP, N. Y.—Bids are asked by the State Commission in Lunacy until 3 p. m., April 5, for the construction of an extension to laundry, including heating and electric work, at the Central Islip State Hospital, Central Islip, N. Y.

HEMPSTEAD, N. Y.—The New York & Long Island Traction Co., Hempstead, N. Y., will purchase this year one 750-KW. converter and three transformers. W. O. Wood, Long Island City, is Pur. Agt.

LONG ISLAND CITY, N. Y.—The Public Service Comn., 2d District, has received an application from the Long Island Lighting Co., a new corporation, asking for its approval of the purchase of the entire property and franchises of the Amityville Electric Light Co., the Sayville Electric Co., the Northport Electric Light Co., and the Islip Electric Light Co., and their merger into the Long Island Lighting Co., and for permission for the new corporation to execute a mortgage covering the properties of the constituent companies and to issue stocks and bonds thereunder. The aggregate price to be paid for the property is $308,672.

POUGHKEEPSIE, N. Y.—The bids received by the State Commission in Lunacy on March 15 for electric generating plant, feeders and transformers, series outside lighting; motors and power-house lighting, at the Hudson River State Hospital, Poughkeepsie, N. Y., were as follows: Alternate bids were asked. Frost & Sheldon, Albany, N. Y., (a) $20,445, (b) $16,945; Philips Mfg. Co., New York, (a) $22,595, (b) $22,899; Lord Electric Co., New York, (a) $23,884, (b) $24,842; W. M. Sheehan Co., New York, (a) $21,343, (b) $20,845; N. Y. Construction Co., New York, (a) $21,800, (b) $18,300; Hewitt & Warden, Newburgh, N. Y., (a) $24,656, (b) $20,475; E. J. Joy Co., Syracuse, (a) $24,700, (b) $23,000; Commercial Construction Co., New York, (b) $19,825; Anderson-Martin, New York, (b) $18,476; Blackall & Baldwin, New York (a) $20,884. F. B. Ware is State Arch. Noted March 2.

✚CORAOPOLIS, PA.—Contracts have been awarded by the Town Council for equipment for the municipal electric light plant as follows: **BUCKEYE ENGINE CO.**, one 225-HP. engine, and the **STRUTHERS WELLS CO.**, for two engines, one of 150-HP. and the other 175-HP.; for three generators to the **CROCKER-WHEELER CO.**, and for switchboard to the **WESTINGHOUSE ELECTRIC & MANUFACTURING CO.**

JAMES CITY, PA.—The American Plate Glass Company, Kane, Pa., has purchased a Westinghouse 700-hp. horizontal gas engine for its Kane City plant. It will be connected to a Westinghouse 625-KVA, 600-volt, 3-phase, 25-cycle alternating-current generator, and will supply electricity for lamps and motors.

ROYERSFORD, PA.—A municipal electric light plant in Royersford is under consideration.

KENSINGTON, MD.—Town Council granted 35-year franchise to Potomac Electric Power Co., 14th and B Sts., N. W., Washington, D. C., to construct electric-light system.

FALLS CHURCH, VA.—A company has been organized to furnish electricity for light and power in Clarendon, Ballston, Charrydale, Falls Church, and other towns in Virginia. M. E. Church, Falls Church, Va., is Pres.

GRAHAM, VA.—The Council granted franchise to J. Elliott Hall, Bluefield, W. Va., to construct a plant and furnish the city with artificial gas. The company has also secured franchise to furnish Bluefield, W. Va., with gas.

HAMPTON, VA.—Newport News & Oil Point Railway & Electric Co. contemplates improving power plant. W. W. S. Butler, Hampton, Va., is Gen. Mgr. and Pur. Agt.

RADFORD, VA.—The Virginia Power Co., which controls power sites on different rivers in Virginia, will develop 100,000 HP., of which 30,000 HP. will be for local use. A transmission system about 500 miles long will be built. Robert A. Schott, Radford, Va., is Ch. Engr.

DILLON, S. C.—Preparations are being made by the Electric Light Commission to rebuild the electric light plant. Bonds to the amount of $15,000 have been voted for this purpose. J. C. Cottingham is a member of the commission.

HONEA PATH, S. C.—The City Council is considering issuing bonds to the amount of $11,000, the proceeds to be used for the construction of an electric light system.

JACKSONVILLE, FLA.—The type of construction and equipment of the new power station of the Jacksonville Electric Co. have been decided by the Stone & Webster Engineering Corporation, who have charge of the design and construction. The building will be of steel frame and brick construction and the stack will be of reinforced concrete. The principal power equipment will be two 1,800-KW. maximum-rated General Electric d.-c. generators coupled respectively to two 2,400-HP. cross-compound engines to be built by the Nordberg Manufacturing Co. There will be three 600-HP. boilers from the Edge Moore Iron Works. The condensers will be of the barometric column type and will be supplied by the Mesta Machine Co. The principal coal-handling apparatus will be a 17-ton Industrial Iron Works locomotive crane. Noted Feb. 9.

LEXINGTON, TENN.—An electric light plant is proposed. Judge A. B. Lamb is interested.

CLEVELAND, OHIO.—Bids were received March 8 for electric light fixtures in Cuyahoga County Court House as follows: The Enox Co., New York, N. Y., $119,556; Edwin T. Caldwell Co., New York, N. Y., $119,900; The Mitchell Vance Co., New York, N. Y., $123,000; Wahle-Phillips Co., New York, N. Y., $142,000. No award was made. Noted Feb. 23.

GREENVILLE, OHIO.—The Greenville Electric Light & Power Co. is preparing plans for extensions to its plant. C. F. Despennent, Greenville, Ohio, is Ch. Engr.

PENDLETON, OHIO.—The Ohio Traction Co. contemplates the construction of a new power house at Pendleton. C. Bruckmyer, Cincinnati, Ohio, is Pres.

COLUMBUS, IND.—See item under Miscellaneous Contracts: Canal, Etc., Columbus, Ind.

CRAWFORDSVILLE, IND.—Bids will soon be asked for the installation of a hot water heating plant in the Culver Union Hospital building by the trustees.

✚LOGANSPORT, IND.—Contracts for the municipal lighting plant have been awarded as follows: Two 250-HP. water tube boilers, coal and ash conveyors for all the boilers, new piping and the resetting and refacing of old boilers, to S. FREEMAN & SONS CO., Racine, Wis., at $26,833. The Freeman company at once sublet to T. H. SULLIVAN, Logansport, the piping contract at $7,490; FRANK MEDLAND, Logansport, the contract for the erection of the 225-ft. stack at $7,490.

DETROIT, MICH.—The Edison Illuminating Co., Alexander Dow, Gen. Mgr., 18 Washington Ave., has awarded the general contract for the new 5-story and basement power plant, 95 × 57 ft., to A. A. ALBRECHT CO., 823 Penobscot Bldg., Detroit. Estimated cost, $75,000.

✚NILES, MICH.—The contract for heating, ventilating and plumbing system to be installed in the new and old High School has been awarded to the EVANS PLUMBING & HEATING CO., Freeport, Ill. Contract price, $28,000.

CHICAGO, ILL.—Bids will be received by Wm. Carroll, City Electrician, Chicago, Ill., until 11 a. m., March 23, for furnishing and delivering to the Department of Electricity 2,270,000, more or less, arc light carbons for electric use.

RACINE, WIS.—The local power plant of the Milwaukee Light, Heat & Traction Co. was recently damaged by fire and will be rebuilt at once. The new equipment needed includes boilers, engines, generators, switchboards, etc. But little of the existing equipment was saved. John I. Beggs, Milwaukee, Wis., is Pres. and Gen. Mgr.

ATLANTIC, IOWA.—The following bids were received for the new electric light plant: The Joseph H. Bortlanger Co., of Omaha, Neb., $49,000 or $43,000 and accept the salvage of the old plant; Fogg & Ryan, Sioux City, $66,800 and $7,000 for the old plant; Des Moines Bridge & Iron Works, $56,700 and $2,320 for old plant; Bailey & Marsh, Minneapolis, $51,278 including old equipment: Faulkenman Electrical Construction Co., Chicago, $67,196. All of the bids are considered too high.

KEOKUK, IOWA.—Financial arrangements have been completed by Stone & Webster Engineering Corporation in conjunction with Kidder, Peabody & Co., both of Boston, Mass., whereby the funds have been secured for the building of a 200,000-HP. hydro-electric plant for the Mississippi River Power Co. A dam will be built across the Mississippi River above the Des Moines Rapids.

WEBSTER CITY, IOWA.—Bids will be received by the City Clk. Webster City, Iowa, until March 29 for furnishing equipment and material for improvements to the municipal electric light and water works systems, in accordance with plans and specifications on file at the office of the city clerk. Item 1—One battery of horizontal tubular boilers, with settings, fittings and steel smoke stacks. Item 2—One Corliss engine suitable for working under a steam pressure of 150 lb. gage and driving one 300-KVA, 60-cycle, 120 r.p.m., engine type generator and belted type exciter. Item 3—One Corliss engine suited for working under steam pressure of 150 lb. gage and driving one 200-kva, 60-cycle, engine type generator and belted type exciter. Item 4—One Hoppes open feed water heater and purifier of 500 hp capacity, with pipe, pipe fittings, valves. Item 5—One 300-kva, 60-cycle, 3-phase, 2300 or 2400-volt, 120 r.p.m., engine type generator and separate exciter. Item 6—One 200-kva, 60-cycle, 3-phase, 2300 or 2400-volt, engine type generator with separate exciter. Item 7—Switchboard with one exciter, two generator panels and feeder panels for one 3-phase power, and four single-phase lighting circuits. The city also has equipment of present plant to dispose of, including three return tubular boilers, with stacks and all fittings; one Norberg Corliss engine; two 60-kw, 125-volt, direct-current generators with instruments; one 100-kw, 125-250-volt, direct-current Fort Wayne three-wire generator direct connected to an Ideal engine with switchboard and instruments; one Smedley duplex pump; one Knowles single pump, line shaft, pulleys, belts, etc. P. M. Banks is city clerk.

ALLIANCE, NEB.—Press reports are to the effect that the city will take over the plants of the Electric Light & Power Co.

OMAHA, NEB.—At the office of the Constr. Quartermaster, Capt. W. L. Clarke, Fort Omaha, Neb., bids will be received until 11 a. m., April 10, for construction of an extension to the electric lighting system at Fort Omaha, Neb.

*KANSAS CITY, MO.—Bids will be received by Leo M. Gilday, Clk. of the County Court of Jackson County, Mo., at his office in the County court-house, until noon, March 31, for one automatic cut-off steam engine, for direct connection to 200-KW. direct-current, 220-volt generator; one generator of 200-KW., 220 volts, direct-current, connected engine.

ALVIN, TEX.—H. P. Rhodes, of Houston, and associates will install a water-works and an electric light plant at this place.

BROWNSVILLE, TEX.—The extension of the municipal water and light plant is contemplated; also the lighting of the City Hall and certain streets. Bids will be asked for some time in April or May. Approximate cost, $100,000. L. B. Puente is City Clk.

CRYSTAL CITY, TEX.—E. C. Robinson, of St. Louis, Mo., who has been investigating the situation at Crystal City with the view of installing an electric light and power plant, is reported to have decided favorably upon the proposition.

KERRVILLE, TEX.—The Kerrville Electric Light & Power Co. will extend its lighting system. Charles Schreiner, Kerrville, Tex., is Pres.

HOLLIS, OKLA.—An electric lighting plant is contemplated at this place. T. J. Galbraith, Chickasha, Okla., is preparing the plans for the owners, Hollis Cotton, Oil, Light & Ice Co.

BOULDER, COLO.—The Highland Power Co. is preparing to construct a high head hydro-electric power plant. H. von Schon, Detroit, Mich., is Consult. Engr.

CEDAREDGE, COLO.—See item under Electric Railways.

DENVER, COLO.—The Central Colorado Power Co. is planning extensions of its transmission lines that will cover practically all the central portion of the state and will cost about $350,000. Among the towns reached by the new transmission lines will be Fairplay, Alma and surrounding territory and other towns in that section of the state which have no electric power lines. C. A. Fitch, 30 Church St., New York, N. Y., is Purchasing Agt.

PHOENIX, ARIZ.—The Salt River Valley Water Users' Association has had plans prepared and will receive bids for the machinery for an electric power plant to consist of: Two hydraulic turbines (with necessary accessories) of 2,500 HP. each and two generators of 1,000-KW. a.-c., seven 333-KVA alternating transformers with switchboards, wiring, etc. Bids f. o. b. point of shipment. Chas. A. Van der Veer is Secy.

TACOMA, WASH.—See item under Manufacturing Plants.

VANCOUVER, WASH.—The Mount Hood Ry. & Power Co. has been granted a franchise for 50 years for light, heat and power. The company expects to develop 1,000 HP. within a year. A substation will be built on the peninsula from which a cable will extend across the Columbia River, over Hayden Island.

✚ALAMEDA, CAL.—The Electricity Commission has awarded the RISDON IRON WORKS the contract for building and installing a new boiler in power-house of the municipal electricity plant, price being $5,585.

KENNETT, CAL.—Lines of the Sacramento Valley Power Co. will be extended from Redding into Kennett within the next few months, to cost about $50,000.

LOS ANGELES, CAL.—The County Board of Supervisors have ordered an election for the formation of an electric lighting district in the vicinity of Hawthorne.

MORGAN HILL, CAL.—The Board of Trustees passed an ordinance granting to the Coast Counties Light & Power Co. the right to erect, maintain and operate an electric transmitting system here.

ST. JOHN, N. B.—Leading St. John business men are seeking incorporation of the New Brunswick Hydro-electric Power Co. for the purpose of developing water powers on the Lepreaux and Nagaguadavic rivers.

MAGOG, QUE.—Ross & Holgate, Montreal, have prepared specifications for an electric lighting and power plant to be built here in the near future.

PORCUPINE, ONT.—Bids have been called for electric lights and power. The mines will also be supplied with power and lights. Ross & Holgate, Montreal, prepared the plans.

✚CALGARY, ALTA.—The contract for furnishing about 200 ornamental lamp posts each having five globes, has been awarded to two companies. The CANADIAN EQUIPMENT CO. and the CANADA FOUNDRY CO. Contract price is $11,400. Noted Feb. 16.

EDMONTON, ALTA.—The following are the specifications of the gas plant to be erected here by the International Heating & Lighting Co., Cleveland, Ohio: Retort house, 120 × 40 ft.; condensing and scrubbing building, 50 × 40 ft.; purifying building, 46 × 40 ft.; boiler room, 40 × 20 ft.; meter and governor house, 35 × 40 ft.; coal storage, 75 × 40 ft.; all of which will be of brick with concrete floors. Tar well, 20,000 gals. capacity; gas holder and tank erected on concrete foundations, capacity 250,000 cu. ft.; five benches and six retorts, 22 × 12 ft.; exhausters, tar extractors, tar separators, two multi-tubular condensers; two tower scrubbers, each 20 ft. high × 6 ft. diameter; four purifiers, 12 × 12 × 5 ft.; station meter, governor, scales, photometer, calorimeter, steam, water and gas connections, 3,000 meter sets and connections, 2,000 services laid and 268,500 ft. of piping ranging in diameter from 2 to 18 ins. C. S. Eaton is here arranging details.

LETHBRIDGE, ALTA.—Specifications have been prepared for extensions to the electric lighting system, which call for an expenditure of $26,600.

✚WINNIPEG, MAN.—The city has awarded a contract to H. B. CAMP, Chicago, for conduits at $7.10 per duct ft. The contract for conduition was awarded to G. M. GEST, Montreal, Que. Contract price, $36,000.

Bids will be received until 11 a. m., May 1, by Magnus Peterson, Secy. Civic Bd. of Control, for the delivery f. o. b. Winnipeg, of ornamental lighting standards. Plans and specifications may be obtained from F. E. Cambridge, City Electrician.

✚WINNIPEG, MAN.—The contract for the superstructure for the power sub-station on King St. has been let by the city to J. McDIARMID CO., Winnipeg. Price, $37,607.

✚VANCOUVER, B. C.—The contract has been awarded to the CANADIAN GENERAL ELECTRIC CO. for 2,000 tungsten lamps for Granville standards at $1.25.

VANCOUVER, B. C.—The Vancouver Gas Co. is having plans prepared for two producers and storage tanks to cost between $400,000 and $500,000.

BRIDGES.

(✚ *Denotes a contract awarded.*)

SALEM, MASS.—Robert R. Evans, Engr. of Essex County, is preparing plans and specifications for a steel and concrete draw bridge to cost $125,000.

PROVIDENCE, R. I.—Plans will soon be completed for the construction of a bridge over Hunts River, on the Post Road near Providence. The structure will be of concrete, and will have a 24-ft. roadbed and a 30-ft. span with a center pier. Otis F. Clapp is City Engr.

ALBANY, N. Y.—Bids were received on March 21 by Charles E. Treman, Supt. Pub. Wks., for the construction of the centre pier in the Minisceongo creek bridge in Rockland County, as follows: E. S. Sickles, New Baltimore, N. Y., $5,018; Theodore C. Hailes, Jr., Albany, N. Y., $5,745.

Bids were also received for Barge Canal Contract No. 87, providing for the construction of a farm bridge over the Erie Canal near Rocky Rift dam, Montgomery County, as follows: E. J. Doyle & Co., Albany, N. Y., $10,284; M. Fitzgerald, Hoosick Falls, N. Y., $11,243; Lupfer & Remick, Buffalo, N. Y., $11,138; P. B. McCaghey Co., Little Falls, N. Y., $10,766; Cunningham-Woodard Co., Hudson Falls, N. Y., $10,962.

✚*ELLICOTT, N. Y.—We are officially advised that the contract for constructing an iron bridge, 20 ft. wide, having a span of 100 ft., over the Cassadaga Creek, has been awarded to GEORGE C. HOLCOMB, Kennedy, N. Y., at $6,500. The contract for two concrete bridges at Work St., in the village of Falconer, has been awarded to S. T. BENSON & CO., at $7,886. Noted on March 2.

*TROY, N. Y.—The lowest bid received by the Board of Contract and Supply for repairing superstructure, building sub-structure, wing wall and stone abutments to Rensselaer St. viaduct was submitted by E. J. Doyle, Albany, N. Y., at $11,000.

✚WHITE PLAINS, N. Y.—We are officially advised that contracts for rebuilding two bridges have been awarded to E. J. DOYLE & CO., Albany, N. Y., at $7,742, and O'ROURKE CONTRACTING CO., Yonkers, N. Y., at $8,887. Noted on Feb. 16.

*CAPE MAY C. H., N. J.—Bids will be received by the Board of Freeholders of the County of Cape May, until noon, April 4, for the erection of a steel truss pivot swing bridge with trestle work approaches. Length of steel draw, 137 ft.; length of trestle work, 271 ft. Bids are to include the erection of the new bridge, removal of the old, and the construction of a temporary bridge for use during the construction of the new one.

PASSAIC, N. J.—The Board of Freeholders of Passaic County have approved plans for a steel drawbridge over Passaic River at Rutherford Ave., to cost $75,000. The structure has been ordered by the War Department and the cost will be defrayed by Passaic and Bergen Counties.

BLAIRSVILLE, PA.—Plans have been prepared for the erection of a concrete girder bridge, having two spans, each 61 ft. The middle ends of the spans will rest on a reinforced-concrete pier. The cost of the structure will be from $8,000 to $12,000.

EASTON, PA.—The Commissioners of Northampton County are contemplating the construction of a concrete bridge over Lehigh River at Easton, at an estimated cost of $150,000.

PITTSBURG, PA.—The city is considering the widening of Smithfield St. bridge at a cost of $125,000.

PITTSBURG, PA.—The lowest bid received for constructing the piers of the new bridge to be erected between the Point and the Northside, was submitted by the Dravo Contracting Co., at $182,750. The other bidders were: Crawford Construction Co., $196,836; C. M. Driven, $198,7[illegible]; Charles McDermott, $206,000; John Morris & Sons, $196,950; Missouri Valley Bridge & Iron Co., $194,500; Drake & Stratton, $209,500; Friday Contracting Co., $207,789.

*READING, PA.—Bids will be received until 10 a. m., April 4, for the erection of three reinforced concrete bridges in Birks County, Pa. Plans and specifications may be obtained at the County Comrs. office, Reading, Pa. A. L. Rhoads is County Controller.

RICHMOND, VA.—Bids will be received by P. St. J. Wilson, State Highway Comr., Richmond, until March 24 for constructing a 50-ft. reinforced concrete arch bridge over Hazel Run, in Spottsylvania County, according to plans on file with the Childrey-Sunday Co., Richmond.

SUFFOLK, VA.—Plans have been prepared for a steel bridge costing $5,000, to be erected over Blackwater River. C. C. Vaughan is Supervisor.

MASON, GA.—The Macon, Dublin & Savannah R. R. Co. is planning to erect a steel bridge with drawspan over the Ocmulgee River at Macon. Estimated cost, $100,000. James T. Wright is Vice-Pres. and Gen. Mgr.

MONTICELLO, MISS.—Bids will be received by W. H. Speights, City Clk., until 1 p. m., April 3, for constructing steel bridge across Silver Creek, on Columbia Road, about six miles from Monticello, according to plans and specifications on file with the clerk of the Board of Supervisors.

CHATTANOOGA, TENN.—A steel girder viaduct to cost $11,000 will be erected jointly by the city and the Southern Ry. Co. Robert Hooke, City Engr., will supervise the construction.

DELAWARE, OHIO.—Bids will soon be asked for constructing the superstructure of two bridges, one known as the Ferson Bridge over Alum Creek in Orange Township, and the other over Alum Creek at the Sunbury Pike crossing, in Berlin Township.

GERMANTOWN, OHIO.—Bids will be received by the Board of Commissioners of Montgomery County, Dayton, Ohio, until 10 a. m., April 6, for constructing a concrete steel arch bridge, near Germantown, over Little Twin Creek, to replace bridge No. 22. The work includes the removal of the old sub-structure and superstructure. J. O. Donovan is Clk.

LORAIN, OHIO.—Plans for building a bridge across the river at the foot of East 31st St. are under way. A survey of the route has been made and preliminary plans have been discussed. It is estimated that the structure will cost from $30,000 to $50,000.

NORWALK, OHIO.—Bids will be received until March 27 at the office of the Commissioners of Huron County for the erection of a steel-riveted bridge over Marsh Run on the Bull Head Road in New Haven Township.

✚PORT CLINTON, OHIO.—We are officially advised that the contract for constructing a drawbridge at Port Clinton have been awarded as follows: Substructure, to the MODERN CONSTRUCTION CO., Fremont, Ohio, at $6,975; superstructure, to the HOME ENGINEERING & CONTRACTING CO., Canton, Ohio, at $7,887. Noted on Feb. 16.

✚TOLEDO, OHIO.—We are officially advised that contracts for constructing 16 culverts were awarded on March 17 to the following: ISAAC DAREN, JOSEPH WOLFF, C. S. MASON and FRANK ROACH, all of Toledo. Noted on March 16.

BRAZIL, IND.—Bids will be received by the Commissioners of Clay County until 11.30 a. m., April 4, for the construction of a bridge at Clay City. E. A. Staggs is County Audr.

LAGRANGE, IND.—Bids will be received by the Commissioners of Lagrange County until 2 p. m., April 4, for the construction of one iron, one wooden pile and five concrete bridges. C. S. Willard is County Audr.

LEBANON, IND.—The sum of $5,000 has been appropriated for a concrete bridge over Prairie Creek on North Lebanon St. The bridge is to be the full width of the street.

RICHMOND, IND.—Bids will be received by the Board of Public Works until 2 p. m., March 27, for the repair of the Doran bridge, including the construction of a reinforced-concrete floor. H. M. Hammond is Chn.

ROCKPORT, IND.—Bids will be received by the Commissioners of Spencer County until 10 a. m., April 5, for the construction of 25 bridges. John T. White is County Audr.

SHELBYVILLE, IND.—Bids will be received by the Commissioners of Shelby County until 10 a. m., April 5, for the construction of four reinforced-concrete bridges. G. B. Huntington is County Audr.

BATAVIA, ILL.—Bids will be received about April 1, for constructing a concrete bridge over Fox River, at an estimated cost of $[illegible]00. W. H. Reaney is City Clk.

STREATOR, ILL.—Bids will be received until 1 p. m., March 25, for the construction of two reinforced concrete skew bridges in Otter Creek Township, according to plans and specifications prepared by the Illinois Highway Commission, Springfield, Ill.

TREMONT, ILL.—Bids will be received by the Clerk of Tazewell County, Pekin, Ill., until 2 p. m., March 24, for the construction of two reinforced concrete bridges in Elm Grove Township, near Tremont.

MARINETTE, WIS.—The Common Council has reduced the estimate of the cost of the new steel span bridge over Menominee River at the Stanton St. site, from $145,000 to $100,000 and has voted to submit the proposition to bond this city for $50,000 to cover its share of the cost. A. L. Hillis is City Engr. Noted on March 16.

CEDAR RAPIDS, IOWA.—We are officially advised that bids for constructing a 6-span concrete bridge over Cedar River at Third Ave., were received by L. J. Storey, City Clk., as follows: B. J. Sweatt, Boone, Iowa, $155,989; Bates & Rogers, Construction Co., Chicago, Ill., $202,013; Lorimer & Gallagher, Chicago, $167,375; Midland Bridge Co., Kansas City, Mo., $216,429; Cleary, White Construction Co., $182,532; Cullen Friestedt Co., Chicago, $211,631; Hoy & Elzy, St. Paul, Minn., $170,400.

CLINTON, IOWA.—Bids will be received by W. E. Hayes, City Clk., until 8 p. m., April 11, for constructing a concrete steel culvert on Fourth and Lumber Sts.

✚ST. CLOUD, MINN.—The contract for constructing a new floor for the St. Germain St. bridge has been awarded to THOMAS E. WOOLLEY, La Crosse, Wis., at $7,593.

HILL CITY, KAN.—Bids will be received by B. S. Smith, Clk. Graham County, until noon, April 4, for constructing a bridge.

CANDO, N. DAK.—Bids will be received by Frank Shanley, Audr., Towner County, until 1 p. m., April 4, for constructing several steel and concrete bridges.

✚GRAND FORKS, N. DAK.—The contract for constructing all steel and concrete bridges to be built during the year 1911 has been awarded to JARDINE & ANDERSON, Fargo, N. Dak., at $10.94 to $24.16 for steel superstructure ranging from the 12-ft. to 16-ft. span to the 84-ft. to 95-ft. span.

LISBON, N. DAK.—Bids will be received by the Board of Commissioners of Ransom County, until 2 p. m., April 3, for constructing corrugated steel culverts to be used this year. I. E. Arntson is County Audr.

AUBURN, CAL.—Bids will be received by the Board of Supervisors of Placer County until 10 a. m., April 4, for the construction of a steel bridge across the North Fork of the American River on the Auburn and Forest Hill Road. Plans and specifications are on file with Marshall Z. Lowell, Clk. of Bd.

SAN BERNARDINO, CAL.—The Board of Supervisors of San Bernardino County are considering the construction of a wooden bridge to span the Mojave River near Victorville, to be built on concrete piers and to cost $12,000.

SAN DIEGO, CAL.—The following bids were received by the City Council for the proposed suspension bridge on Spruce St., to connect Front and Brant Sts.: Standard Iron Works, $5,120; Charles Steffgen, $7,730; Knight & Hyde, $4,456.

✚CHARLES STEFFGEN, Granger Bldg., San Diego, was awarded a contract by the County Board of Supervisors for constructing the coast highway bridge near Oceanside. It will have concrete piers and abutments, steel supports and asphalt paving.

SAN FRANCISCO, CAL.—A bill has been passed providing for the construction, at a cost not exceeding $109,000, of the north section of the reinforced-concrete viaduct on Mission St., near Bosworth St. Marsden Manson is City Engr.

✚QUEBEC, QUE.—The contract for constructing the bridge across the St. Charles River has been awarded to LEMOINE & CO., of Montreal. The new bridge will be of the bascule design, 150 ft. in length.

KINGSTON, ONT.—Bids will be received by the city until April 5, for constructing the Catasaqui Bridge, estimated at $18,000. H. B. Craig is City Engr.

✚OTTAWA, ONT.—We are officially advised that the contract for the construction of one reinforced concrete bridge in the Township of Osgoode, and two reinforced concrete bridges in the Township of Huntley, has been awarded to JENNING & ROSS, at $9,745. Noted on March 2.

CALGARY, ALTA.—The Canadian Pacific Ry. Co. will start work during April on two bridges across the Elbow River, each to cost $150,000. Address J. S. Dennis.

WINNIPEG, MAN.—Bids will be received until noon, March 27, by Divisional Engineer of the Canadian Pacific Ry. Co., Winnipeg, for the construction of substructures of bridges and culverts on the Manitoba Division and a culvert at Kenora, Ont. J. E. Schwitzer is Asst. Chf. Engr.

BUILDINGS.

*(*Denotes that this work is advertised in Engineering News.)*

BOSTON, MASS.—Bids will be received until March 27 by the Board of Trustees for improvements and additions to the municipal building on Blossom St.

William Filene Sons & Co., 461 Washington St., will, in all probability, erect a 10-story department store on property recently acquired by them at Washington, Summer and Hawley Sts. It is stated that plans for the same were inaugurated over a year ago by a New York syndicate, abandoned, then revived on the acquirement of the property. The building will cost about $5,000,000. Plans are in course of preparation.

HOLYOKE, MASS.—Oscar Beauchemin has completed plans, and bids are now being received, for a 5-story store and apartment block at Main and Cabot Sts. for Dr. Wilfred G. Deroin. The building will be 55 × 100 ft., first two stories limestone, remainder pressed brick with limestone trim.

✚The contract for the erection of Dr. G. C. Roberts' new block at Cabot and Chestnut Sts. has been awarded to ISRAEL DUCHARME. The building will be 100 × 110 ft., five stories high, of pressed brick with limestone trim. George P. B. Alderman & Bro. are the Archs.

✚SPRINGFIELD, MASS.—FRED T. LEY & CO., INC., Springfield, Mass., have been awarded the contract for a new 5-story brick and steel fireproof store building for Forbes & Wallace, on Vernon St. The building will be 99 × 112 ft. and will have one freight and three passenger elevators. Cost, $150,000. Kirkham & Parlett, Springfield, Mass., are the Archs.

SPRINGFIELD, MASS.—Bids are to be received until March 30 for the construction of a new school house on Sumner Ave. for the city of Springfield. It will be 72 × 152 ft., two stories high, of red brick, with terra-cotta and limestone trim. E. C. and G. C. Gardner, Springfield, Mass., are the Archs.

WATERTOWN, MASS.—Plans have been prepared by R. Clipston Sturgis for a large cluster of buildings for the School for the Blind, now located in South Boston.

WHITINSVILLE, MASS.—A library building will be erected here. The estimated cost is $80,000, which amount is available for use, being the gift of Edward and Arthur F. Whitin, long identified with this town.

PROVIDENCE, R. I.—Plans are being prepared at the office of W. B. Satterlee, 86 Weybosset St., for a 3-story fireproof store and office building, 100 × 114 ft., which the Andrews Land Co. will erect on the southwest corner of Greene and Garden Sts.

The Allen Opera House Co. will erect a theatre on Union St. The building will have a seating capacity of 2,500 and will be of modern fireproof construction; the cost will be about $150,000. Plans are being prepared by William R. Walker & Son, 17 Custom House St., Providence.

✚DARIEN, CONN.—THE SHEA & SULLIVAN CO., Stamford, Conn., have been awarded the contract for two residences on Contentment Island for James Hoyt Knapp. The buildings will be 60 × 80 ft., of hollow tile blocks and stucco, with slate and tile roofs, and are estimated to cost $40,000. Grosvenor Atterbury, 20 West 43rd St., New York, is the Arch.

✚HARTFORD, CONN.—The general contract for the new building of the Southern New England Telephone Co., on Pearl St., has been awarded to C. B. ANDRUS & SON, 902 Main St., Hartford, who have let the sub-contract for the steel work to the LEVERING & GARRIGUES CO., of New York. L. W. Robinson, New Haven, Conn., is the Arch.

✚NEW BRITAIN, CONN.—THE CURTIS BUILDING CO. have been awarded the general contract for the new brick and steel building on Main St. for Frank H. Alford. DOOLITTLE BROS. have the sub-contract for the mason work and the EASTERN BRIDGE & STRUCTURAL CO, Worcester, Mass., for the steel work. Isaac A. Allen, Jr., Hartford, Conn., is the Arch.

✚ROWAYTON, CONN.—The contract for the new residence of James F. Farrell, President U. S. Steel Corp., at Hickory Bluff, has been awarded to W. R. MUIRHEAD, 1362 Pembroke St., Bridgeport, Conn. Mulliken & Moeller, 103 Park Ave., New York, are the Archs. (Noted March 16.)

STAMFORD, CONN.—Nelson E. Cummens is preparing plans for two 4-story brick blocks on Bank St. for Thomas Bland and the Shea & Sullivan Co. Each block will be 50 × 100 ft., with terra-cotta front.

NEW ROCHELLE, N. Y.—The Huguenot Yacht Club is considering erecting a club house. The estimated cost is $50,000. E. A. Sunford is Commodore.

Officials of the St. Paul's Episcopal Church have purchased a site upon which they will erect a church and rectory. The building will be of stone and brick.

NEW YORK, N. Y.—A parsonage will be constructed by the Second Peters German Evangelical Lutheran congregation at 140th St., in the Bronx. The estimated cost is $50,000.

Moore & Landsiedel, 148th St. and Third Ave., are preparing plans for the erection of two 6-story elevator apartments at 178th St. and Northern Ave. The Birch Realty Co., 64th St. and North River, is owner. The estimated cost is $300,000.

Plans are being prepared by William H. Gompert, 2102 Broadway, for the construction of a 16-story store, loft and office building on Madison Ave. and 33d St. Herald Square Holding Co. is owner. About $800,000 will be spent.

The Harvey Realty Co., 40 East 22d St., will erect at 171st St. and Audubon Ave. two 5-story tenement buildings. The estimated cost is $90,000. J. C. Cocker, 2017 Fifth Ave., is Arch.

Edward J. Byrne, 3029 Third Ave., has prepared plans for the construction of two 5-story tenement buildings at 164th St. and Third Ave. The estimated cost is $80,000. The Kingsley Contracting Co., 1439 St. Nicholas Ave. is owner.

Rouse & Goldstone, 38 West 32d St., are preparing plans for the construction of a 12-story loft building at 35th St. and Broadway. The facade will be of limestone and terra cotta. The estimated cost is $300,000.

A building will be erected by the Margaret & Sarah Sweitzer Institute and Home, Christopher St. and Waverly Pl. The estimated cost is $50,000. J. Duke Harrison, 21-23 East 27th St., is Arch.

Daniel E. Seybel, 41 Park Row, will erect at 71-73 Murray St. a steel loft. Carrere & Hastings, 225 Fifth Ave., are Archs. The estimated cost is about $150,000.

Reville Seisel Co., 941 Intervale Ave., will erect at West Farms Rd. a 1-story brick store building. The estimated cost is $40,000. Kreymborg Architectural Co., 1330 Wilkins Ave., is Arch.

Plans are being prepared by George F. Pelham, 507 Fifth Ave., for the construction of a 5-story, 50 × 90-ft., tenement building at 187th St. and Wadsworth Ave. The Crest Realty Co., 71 Nassau St., are owners. The estimated cost is $60,000.

Plans are being prepared by Moore & Landseidel, Third Ave. and 149th St., for the construction of two 5-story brick tenement buildings at 168th St. and Fulton Ave. Wahlig & Sousire, Southern Boulevard and Freeman St., are owners.

McKim, Mead & White, 160 Fifth Ave., are preparing plans for the construction of a library and school, 150 × 57 ft., at 116th St. and Amsterdam Ave. The Columbia University is the owner. The estimated cost is $200,000.

Charles M. Straub, 147 Fourth Ave., is the architect for the construction of a building to be erected at 204 Division St. The estimated cost is $60,000.

The Corporation of Trinity Church, 186 Fulton St., will erect, between Clarkson and Leroy Sts., an 8-story brick printing house. Renwick, Aspinwall & Tucker, 320 Fifth Ave., are Archs. The estimated cost is $400,000.

Koch & Wagner, 26 Court St., Brooklyn, N. Y., are preparing plans for the construction of an apartment building to cost about $50,000, on Ocean and Parkside Aves, Brooklyn. The structure will be of brick and limestone, 65 × 100, and four stories high. Homer Stolp & Cox, 2501 Clarendon Rd., Brooklyn, are owners.

A 12-story loft building will be constructed by the Van Beuren Estate, 21 West 14th St. The estimated cost is $200,000. Charles Volz, 160 Fifth Ave., is Arch.

C. P. H. Gilbert, 1133 Broadway, is preparing plans for the construction of a 5-story brick and limestone building at 68th St. The estimated cost is $45,000. Emily B. Frelinghuysen, Raritan, N. J., is owner.

Mulliken & Moeller, 103 Park Ave., are the architects for the construction of a 12-story stone loft building at 119 East 24th St. The estimated cost is $125,000.

The Board of Education will erect at East 120th St. a school building. The present building will then be abandoned, as it is in a much dilapidated condition. The estimated cost is $269,940.

NEW YORK, N. Y.—Bids will be received by the President of the Board of Trustees, Staff Room, Bellevue Hospital, until 3 p. m., March 28, for providing all the labor and materials necessary or required for the excavation, masonry, steel and iron work, roofing and metal work, carpentry, painting, glazing, hardware and all other work for the alteration, repair, construction and completion of the enlargement and enclosure of six balconies. Fordham Hospital, Crotona Ave. and the Southern Boulevard, Borough of The Bronx, City of New York. Also for all labor and material required for the furnishing and setting of storm windows in the loggias of pavilions A and B of Bellevue Hospital, situated 26th to 29th St., 1st Ave. to East River, Borough of Manhattan, City of New York. John W. Brannan is Pres. of the Bd. of Trus. Bellevue and Allied Hospitals.

NIAGARA FALLS, N. Y.—Bids will be asked soon for the construction of a theater here. J. R. White is Arch. John F. McDonald is owner. The probable cost is $80,000.

OLEAN, N. Y.—Plans have been prepared for the construction of the Olean General Hospital. The estimated cost is $50,000.

POUGHKEEPSIE, N. Y.—It is reported that F. F. Proctor, vaudeville manager, is to build a $200,000 combination hotel and theater here. Plans are said to be in course of preparation by Hill & Johnson, Archs., Toledo, Ohio.

✚ROCKAWAY PARK (L. I.), N. Y.—The contract has been awarded to GEORGE H. CLOSS, North Thompson Ave., Rockaway, for a building to be constructed on Fourth Ave.

TARRYTOWN, N. Y.—One hundred thousand dollars has been raised to construct a building for the Y. M. C. A. here. The proposed building will be located on Main St.

UTICA, N. Y.—Leon H. Lempert & Son, Rochester, N. Y., are preparing plans for the construction of a business block on Washington St. Harris Lumberg, Niagara Falls, N. Y., is owner. The estimated cost is $60,000.

WAVERLY, N. Y.—J. H. Pierce, Elmira, has according to report, submitted plans to the Board of Education for the construction of a 2-story brick high school. The cost is $85,000.

✚YONKERS, N. Y.—The Board of Education received the following bids for construction of an addition of six rooms and an assembly room to School No. 5, Lockwood Ave.: LYNCH & LARKIN, $42,950; George T. Kelly, $44,813; P. J. Flannery, $43,490; R. L. Stewart, $47,770; Westchester Engineering Co., $46,777; Kingsley & Maxwell, $56,900. The Board directed C. C. Chipman, 220 Broadway, New York City, to prepare plans for an addition of four classrooms to School No. 8, Bronxville Rd. Metal stairways will be put in both old and new parts of building. Bids will be called for soon. John H. Claxton is Clk. of Bd.

NEWARK, N. J.—Henry Baechlin, 655 Broad St., is preparing plans for the construction of a 6-story brick building to be erected at 44 Clinton St. for the Stoutenburg Estate. The estimated cost is about $50,000.

✚H. C. SCHNEIDER BUILDING & CONTRACTING CO., 514 South 14th St., Newark, has been awarded the contract for constructing a theater for the Fulton Improvement Co. The estimated cost is $125,000.

It is reported that Robert B. Stoutenburgh, 843 Broad St., will erect a 10-story building at Plane and Academy Sts. The estimated cost is $200,000.

A building, costing approximately $2,000,000, will be erected by L. Bamberger & Co., Newark. The building will be erected on Market St., from Halsey to Washington Sts., having a frontage of 144 ft. on Market St and a depth of 116 ft. on Washington St. and 235 ft. on Halsey St.

BETHLEHEM, PA.—Plans are being prepared by Henry C. Pelton, 10 East 33d St., New York, for the construction of an addition to the present high school. The cost is about $52,000.

NEW CASTLE, PA.—Plans are being prepared by C. C. & L. A. Thayer, New Castle, for the construction of a Y. M. C. A. building. The estimated cost is $120,000.

PHILADELPHIA, PA.—It is reported that plans are being prepared by Cape & Stewardson, 320 Walnut St., for the construction of a building to be erected at 1340 Lombard St. for the Visiting Nurse Society.

✚GEORGE F. PAWLING & CO. have a contract for a large leather warehouse at 414-416 North Third St. for Alexander Brothers. The cost will be about $100,000.

Press reports state that a club house, costing about $1,000,000, will probably be erected by the Manufacturers' Club, Broad and Walnut Sts.

PITTSBURG, PA.—It is reported that Alling & Cory Co., Rochester, N. Y., will construct a fireproof warehouse on River Ave. The estimated cost is $200,000.

SHAMOKIN, PA.—A church, costing about $125,000, will be constructed here by the Poles of Shamokin. The congregation is negotiating for the purchase of property for a site adjoining the present church. Architects have not yet been selected.

✚BALTIMORE, MD.—Jacob Epstein awarded the contract to the NOEL CONSTRUCTION CO., United Fidelity and Guaranty Bldg., Calvert and German Sts., for the proposed Baltimore Bargain House, Baltimore St. The building will be twelve stories high, of fireproof construction. The estimated cost is $500,000.

Louis and Abraham Benesch, 415-17 Gaither Bldg., have plans by Theodore Wells Pietsch, American Bldg., Baltimore, for a moving-picture theater at 1358-60 West North Ave., to be one story high, of brick, with a seating capacity of 400.

✚Henry Williams, 605 Union Trust Bldg., awarded the contract to GLADFELTER & CHAMBERS, 2072 Woodberry Ave., Baltimore, to erect residence, two and a half stories, at $50,000.

ELLICOTT CITY, MD.—The St. Charles College, Rev. F. X. McKenny, Pres., will reconstruct college buildings recently destroyed by fire at a loss of about $250,000. Plans for the building are being outlined. It is proposed to erect a three or four story structure to cost about $300,000.

HAGERSTOWN, MD.—It is reported that various improvements will be made by the Cumberland Valley R. R., including passenger station, terminals, roundhouses, yards and elevated lines through the city of Hagerstown. The cost will be from $500,000 to $750,000. G. C. Koons, Chambersburg, Pa., is Engr.

LUTHERVILE, MD.—Plans are being prepared by Emory & Nussear for the construction of a building for the Maryland College for Women. The building will measure 134 × 55 ft., and is to be of concrete, stone, brick and terra cotta. It will cost about $80,000

✚MOUNT HOPE, MD.—Mount Hope Retreat awarded contract to JOHN WATERS, 23 East Center St., Baltimore, Md., to remodel present chapel for patients' rooms and erecting chapel, at $90,000. Plans prepared by Baldwin & Pennington, Professional Bldg., Baltimore.

OAKLAND, MD.—Lee F. Hoffman, Mgr. Hoffman Garage at Meyersdale and Bedford, Pa., and A. D. Naylor of Oakland will erect a garage to be three stories high, of brick and steel construction.

✚HARRISONBURG, VA.—The Methodist Episcopal Church has awarded the contract to J. S. HEATWOLE CO., Harrisonburg, for the construction of an edifice at $39,540. Plans prepared by C. M. Robinson, Mutual Bldg., Richmond, Va. The cost of the building is $60,000.

RICHMOND, VA.—Philip Harris will erect a store and office building, 30 × 100 ft., five stories high, of brick, to cost $40,000. Plans by Charles H. Fisher, Richmond.

ROANOKE, VA.—J. F. Barbour & Sons, Roanoke, are lowest bidders for erection Jefferson apartment house, six stories, at $60,000.

NEW ORLEANS, LA.—Plans are being prepared by De Buy, Churchill & Labouisse, Hibernia Bldg., New Orleans, for the construction of a 2-story brick and steel immigration station here. The estimated cost is $140,000.

RUSSELLVILLE, KY.—It is reported that the Louisville & Nashville R. R. will increase its terminal facilities and erect shops. W. H. Courtenay, Louisville, Ky., is Ch. Engr.

CINCINNATI, OHIO.—It is reported that plans have been completed for the Guilford School to be located on Fourth and Ludlow Sts. The estimated cost is $160,000.

COLUMBUS, OHIO.—Plans are being prepared by Richards, McCarty & Bulford, Archs., for a 5-story reinforced concrete building to be erected by the Citizens Wholesale Supply Co. on Mt. Vernon Ave.

LORAIN, OHIO.—A high school will in all probability be constructed here by the Board of Education; also two other schools, one costing $100,000, the other $60,000.

PORT CLINTON, OHIO.—It is reported that bids will be received until April 10 for the construction of a public hall and public offices. Address J. A. Singler, Clk.

ROSEWOOD, OHIO.—Bids will be received by G. C. Licklider, Clk., until April 6, for the construction of a school building here.

WAYNESBURG, OHIO. — W. E. Yarger, Clk. Board of Education, will receive bids until March 28 for constructing an eight-room school. J. M. Bostick, Canton, is Arch.

✚BEDFORD, IND.—The School Board here has awarded a contract for the erection of a high school building to M. M. WISESHIP, Rushville, Ind., at $77,162; the heating plant LANE & PIKE, Lafayette, Ind., at $23,697, and the plumbing to J. J. QUINN, Bedford, at $8,900. Total cost, $109,000.

CHARLOTTSVILLE, IND.—The School Trustees are preparing to ask for bids for the erection of an 8-room, 2-story brick school building, with basement and steam heat. The old building has been condemned.

✚COLUMBUS, IND. — CALDWELL & DRAKE of this city have received a contract for the erection of a 12-story hotel building in Louisville, on Walnut St. The contract price is near $800,000. The contract was secured by the firm without competition.

DECATUR, IND.—The School Board here is considering a number of plans for the erection of a new high school building. The building will contain a large assembly room, six class rooms, finished basement and modern equipments.

ELKHART, IND.—E. Hill Turnock is preparing plans on which he will receive bids for the complete remodeling of the Standard Hotel, owned by the Schoenhofen Brewing Co., Chicago.

H. E. Bucklen has ordered plans for the extensive remodeling of the Bucklen theater. Bids will be received after May 1.

EVANSVILLE, IND.—Arch. Shopbell, of this city, is asking for bids for the construction of the Woods office building at Fourth and Main Sts. The building will be of brick and stone, five stories high. Bids will be exclusive of foundation.

✚FT. WAYNE, IND.—CHARLES NICODEMUS, Roanoke, Ind., has been awarded a contract for the construction of the Simpson M. E. Church, at $40,200.

GARY, IND.—The American Bridge Co., of the United States Steel Corporation, is asking for bids on plans and specifications for the erection of 142 dwelling houses for its employes. The estimated aggregate cost is $750,000.

GOSHEN, IND.—Dr. S. A. Edmonds is preparing to build a residence on Wilson Ave. Bids will be solicited as soon as plans are completed.

GOSHEN, IND.—James Knox Taylor, Superv. Arch., Washington, D. C., has notified the Goshen postmaster that plans are now being prepared for the construction of a new post office building. It is thought bids will be asked for about June 1.

HARTFORD CITY, IND.—The Pennsylvania R. R. has received plans for the construction of a $40,000 passenger station on High St. The company has just completed a $40,000 coaling station and repair shop at this point.

INDIANAPOLIS, IND.—William M. Jillson, 1424 North Delaware St., has employed W. Scott Moore & Co., Archs., to prepare plans and specifications for the construction of a new hotel at 131-139 East Court St. Bids will be received as soon as plans are completed.

✚INDIANAPOLIS, IND.—THE BEDFORD CONSTRUCTION CO. has been awarded a contract to construct the Hume-Mansor office building on East Ohio St., at $390,000. The building will be ten stories high.

INDIANAPOLIS, IND.—The Commissioners of Marion County are agitating the construction of a court house. A plain block building, four or five stories high, is recommended. Carl Von Hake is Pres. of the Bd.

INDIANAPOLIS, IND.—The School Board has accepted plans prepared by Vanegut & Bohn, Archs., for a new 8-room school building at No. 10 district, and plans prepared by Wilson B. Parker, Arch., for a new branch library building in Spades Park. Bids will be solicited for both of these buildings about May 1, John E. Cleveland, business director.

PAOLI, IND.—Bids will be received until April 4 by the Board of County Commissioners for remodeling the court house here. A. B. Ham is County Audr.

✚PENNVILLE, IND.—The contract for the construction of the new high school building has been let to JAMES I. BARNES, Logansport, Ind. This is the second set of bids received, the first considered too high.

PRINCETON, IND.—Plans will soon be ready on which to receive bids for the erection of a new federal building in this city. The appropriation is $65,000. Bids will be received by the Superv. Arch., Washington, D. C.

SOUTH BEND, IND.—The Board of School Trustees has authorized a bond issue of $200,000 for the erection of a $250,000 school building. Bids will be received until April 15.

The M. E. Church Trustees of Trinity are preparing to ask for bids for the erection of a church near the Muessel School building.

✚SOUTH BEND, IND.—The Trustees of the Epworth Memorial Church have awarded a contract for the construction of a new and modern church to C. E. DAVIS, Danville, Ill. The building will be of gray stone, finished basement and steam heat.

SOUTH BEND, IND.—C. L. Warner & Sons have ordered plans and specifications on which they will ask for bids for the construction of a large warehouse north of the Armour plant on the Lakeshore side track.

VALLONIA, IND.—Trustees of Driftwood Township have rejected all bids for the erection of two brick school houses because they exceeded the appropriations. New bids will be asked for on revised plans.

DETROIT, MICH. — Albert Kahn and E. Wilby, 800 Trussed Concrete Bldg., have awarded the following contracts for the 3-story and basement store building, 110 × 130 ft., for Thomas J. Barry, 93 Elliott St.: Composition roofing, to H. C. MINES & CO., 354 Humboldt Ave.; steam heating and plumbing, to HARRIGAN & REID, 70 State St.; plastering, to H. J. BARBER, 425 Pennsylvania Ave.; painting, to WALLS & SON, 172 Military Ave. The estimated cost is $40,000.

✚R. H. Marr, 1529 Ford Bldg., has awarded the following contracts for the construction of an 8-story and basement building, 100 × 100 ft., for the Keifer Land Co., 87 Forrest Ave.; Structural iron work, to the DETROIT BRIDGE & STEEL WORKS, Dearborn Ave.; masonry, to BRYANT & DETWEITER, 510 Hammond Bldg.; composition roofing, to PHILIP-CAREY MFG. CO., 17 Jefferson Ave.; heating and plumbing, to HARRIGAN & REID, 70 State St.; plastering, to JOHN HANLEY, 78 Congress St.; painting, to H. J. DEAN CO., 193 Griswold St. The cost of the building is $160,000.

Baxter & O'Dell, 1024 Hammond Bldg., are preparing plans for a 4-story and basement apartment building, 90 × 105 ft., for J. E. Roche, 349 Chene St. The building will contain 21 apartments, and be constructed of press and stock brick, Bedford stone, composition roof, galvanized iron skylight, structural iron. The probable cost is $43,000.

H. S. Warren & Co., 211 Moffatt Bldg., announce that they have promoted a plan and have secured a site at Broadway and Grand River Ave., and that they have secured the necessary capital, $300,000, for the construction of a 3-story and basement reinforced concrete and steel building for a public meat market. A complete refrigerating plant will be constructed in the basement. The plant, complete, will cost $150,000. The company has been incorporated, and will be known as the Broadway Public Market Co. Construction of the building will be started soon.

PONTIAC, MICH. — The Fisher Bros., 8 Blandette Bldg., Pontiac, will soon take figures on the erection of two schools, to be two stories high and basement each, costing about $40,000. Address E. R. Webster, Secy. Board of Education, Treadway Bldg.

SAGINAW, MICH.—Plans are being prepared by F. W. Hollister, 20 Hamilton Sq. Bldg., for the construction of a 2-story and basement jail for Saginaw County. The estimated cost is $40,000.

F. W. Hollister, 20 Hamilton Sq. Bldg., will take figures, about May 1, for the construction of a 3-story and basement building for the Masonic bodies here. The probable cost is $45,000.

F. W. Hollister, 20 Hamilton Sq. Bldg., is preparing plans and will take figures early in May for a 3-story and basement opera house, 40 × 60 ft., and 60 × 120 ft., with a 31 × 60 ft. stage, 50 ft. high. Charles Bauer is owner. The probable cost is $40,000.

Cowles & Mutcheller, 5 Chase Bldg., Saginaw, Mich., are preparing plans for a church, 62 × 128 ft., for the St. Andrew's Roman Catholic Church Society, Rev. Vogel, Pastor. The church will be located at Monroe and Michigan Aves. The cost is about $60,000.

CHICAGO, ILL.—A 3-story gray brick and stone Nicholas Senn High School will be erected by the Board of Education at Southport and Francis Ave., at a probable cost of $600,000.

✚ROCK ISLAND, ILL.—James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., has awarded contract for the construction of a post-office building at Rock Island, Ill., to the GENERAL CONSTRUCTION CO., Milwaukee, Wis., at $113,758.

GREEN BAY, WIS.—Bids will be received here until March 28 for erecting a jail and sheriff's residence. Foeller & Schober, Green Bay, are Archs.

MADISON, WIS.—The Metropole Hotel Co., C. J. Kirch, Pres., will erect a $100,000 hotel building on the site of the present Kirch block, Capitol Sq. The stock issues are now being disposed of.

The Stondall-Toftoy Co. has purchased the Young block, 25-27 West Main St., and intends to erect a large business block, equal in size to the proposed Metropole Hotel, adjoining.

ME[illegible] WIS. — George Gibson, Chm. Bldg. Com., will receive bids until March 29 for constructing a jail and sheriff's residence. Foeller & Schober, Green Bay, are Archs. The estimated cost is $40,000.

MILWAUKEE, WIS.—Bids will be received at the office of Frank M. Harbach, Secy. Board of School Directors, until 5 p. m., March 30, for the erection of a 22d district school building on 38th St., between Clarke and Center Sts. Separate bids are required on masonry, concrete, marble, cut stone, lathing and plastering, carpenter and joiner, cast and wrought iron, galvanized iron and slate and tin, electrical, slate blackboard, hardware, painting and glazing, plumbing and gasfitting, heating and ventilating, and heat-regulation work.

Henry G. Lotter, Arch., 304 West Water St., has been commissioned to prepare plans for the proposed theater building for Alfred L. Ries at 214-216 Grand Ave., to replace the Grassler & Gezelschap building. Estimated cost is $50,000.

✚MILWAUKEE, WIS.—The Pabst Brewing Co. has awarded the contract for erecting a $175,000 storage warehouse on Chestnut St., between Ninth and Tenth Sts., to HENRY DANISCHEFSKY, Milwaukee. The structure will be of concrete and steel construction, 48 × 208 ft.

✚RACINE, WIS.—The following contracts have been awarded for the construction of a school here: General contracting, JENSEN BROS., Racine, $41,026; heating, TOMAS HEATING CO., Racine, $5,735; plumbing, O. H. BEECHER & CO., Racine, $3,485; electric wiring, F. H. PATRICK, Racine, $374.50.

COHASETT, MINN.—The Board of Education is having F. W. Hollister, 20 Hamilton Sq., Saginaw, Mich., prepare plans for the construction of a school building, 65 × 100 ft., here. The cost is $45,000.

ST. PAUL, MINN.—The State Board of Control, Chas. Halvorson, Chn., has received new bids for the construction of a main medical building at the state university, to cost $250,000, and an anatomy building costing $200,000. This is the third time bids have been received for these buildings, as the legislature has decided that only native stone must be used. C. H. Johnston, St. Paul, is Arch.

SPRING VALLEY, MINN.—J. W. Barber, Secy. School Bd., will receive bids until March 27 for erecting a high school for Independent School District No. 112. J. Amlie, Spring Valley, is Arch.

KENSINGTON, KAN.—John Shinkle, Chn. School Board, will receive bids until March 28 for the construction of a high school here. M. N. Bair, Hastings, Neb., is Arch.

OSWEGO, KAN. — H. W. Morris, Secy. Board of Education, will receive bids until March 30 for constructing a 2-story and basement brick school. H. H. Hobenschild, 309 Navarre Bldg., St. Louis, Mo., is Arch.

SALINA, KAN.—Charles E. Baker, City Clk., will receive bids until March 27 for constructing a city hall and jail annex building.

✚OMAHA, NEB. — The contract has been awarded to T. S. LEAKE & CO., Chicago, Ill., for the completion of the freight depot for the Burlington R. R.

According to press reports, the Lincoln Commercial Club has accepted plans for the construction of a building to be erected at 11th and P Sts. The estimated cost is $100,000.

BALTIC, S. DAK.—The Rev. N. Boe will receive bids until March 25 for the construction of a stone church. Joseph Schwartz, Sioux Falls, is Arch.

✚LEAD, S. DAK.—James Knox Taylor, Superv. Arch., Treasury ept., Washington, D. C., has awarded contract for the construction of a U. S. post-office at Lead, to J. H. WIESE, South Omaha, Neb., at $69,625.

YANKTON, S. DAK.—Plans have been ordered by the Mother Superior of the Benedictine Sisters here for the construction of a fireproof hospital and central power plant. It will be four stories high. Hartford & Jacobson, 601 Capital Bank Bldg., St. Paul, Minn., are Archs. The cost is $200,000.

SCHAFER, N. DAK.—Bids will be received until April 11 by the Board of Education for the construction of about eight schools. J. J. Martin is Dist. Clk.

ST. LOUIS, MO.—Press reports are to the effect that the St. Louis Southwestern Ry. has purchased a site, 900 × 275 ft., and will erect a freight station. C. D. Purdon, Tyler, Tex., is Ch. Engr.

TERRELL, TEX.—Bids will be received until 3 p. m., April 25, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction, complete (including plumbing, gas piping, heating apparatus, electric conduits and wiring), of the United States post-office at Terrell, Tex. Drawings and specifications may be obtained from the Custodian of site at Terrell, Tex., or at the office of the Superv. Arch.

SALT LAKE CITY, UTAH.—A State Capitol building will be erected here, having been authorized by the state. The cost is about $2,500,000, for which bonds have been authorized, and $750,000 made immediately available by the inheritance tax from the Harriman estate.

BAKERSFIELD, CAL.—Bemus & Long, Hayden Bldg., are preparing plans for a 1-story concrete telephone building to be erected at Taft for the Kern Mutual Telephone Co. The building will be 50 × 75 ft.

✚LOS ANGELES, CAL.—A building permit was issued here on March 9 for a 10-story class A office building, to be erected at 7th and Spring St., by the Union Oil Building Co. PAUL HAUPT is the general contractor and the cost of the structure will be $700,000. Parkinson & Bergstrom, Security Bldg., are Archs.

OAKLAND, CAL.—The city council has adopted resolutions ordering a special election to be held on May 16 to vote upon the proposition of issuing $500,000 for a municipal convention hall, and $2,493,900 for new schools and improvements to the present buildings.

✚SAN DIEGO, CAL.—H. J. FENTON has been awarded the contract for constructing the 5-story department store building here for Geo. W. Marston. The cost will be $300,000.

SAN FRANCISCO, CAL.—Crim & Scott, 425 Kearney St., have been commissioned to prepare plans for a theatre building to be erected on Mission St. by the Wigwam Theatre Co.; to be class A construction and cost about $90,000.

SAN JOSE, CAL.—Wm. Binder and McKenzie & Wolfe are drawing plans for a 5-story Elks Lodge building to be erected on Market St. Class C construction, 50 × 125 ft., structural steel, concrete foundation, composition roof, brick and concrete walls. Cost, about $55,000.

SANTA BARBARA, CAL.—The Western Machinery & Foundry Co. have had plans prepared for three buildings to be erected at once. A foundry, 80 × 48 ft.; garage, 84 × 60 ft., and a chauffeurs' club house. The foundry will have concrete foundation and iron walls and roof and will be equipped with the latest machinery for the manufacture of structural iron and fittings; club house to be two stories and brick; garage to have complete repair outfit.

SANTA MONICA, CAL.—Eager & Eager, Story Bldg., Los Angeles, have prepared plans for a 3-story brick apartment house, 60 × 120 ft., to be erected here for Carl F. Schader. The building will be equipped with elevator, steam heat, vacuum cleaning. The estimated cost is $50,000.

✚FORT WILLIAM, ONT.—GEORGE P. GRAHAME has been awarded the contract at $77,000 by Carl Wirth, Arch., to erect a block here for the Traders Bank of Canada.

OTTAWA, ONT.—The Canadian Pacific Ry. has completed plans and will shortly award the contract for a concrete roundhouse costing $70,000.

PORTAGE LA PRAIRIE, MAN.—Bids will be received until 4 p. m. April 3 by R. C. Desrochers, Secy., Dept. of [illegible] Works, Ottawa, Ont., for the erection of an armory here.

WINNIPEG, MAN.—The Canadian Pacific Telegraph Co. is about to erect a large block for telegraph, ticket, freight, express and steamship offices. Address B. S. Jenkins, Gen. Supt., Winnipeg, Man.

Bids will be received until March 25 by Hon. Robert Rogers, Minister of Pub. Works, for labor and materials necessary to construct a dormitory building [illegible] the Manitoba Agricultural College. Estimated cost, $500,000.

An English syndicate, represented by E. H. Ford, of the Ford Iron Works, Montreal, Que., has secured an option here for an hotel which will be one of a string of fourteen which the syndicate will build in Canada. Each will cost $250,000. Over half the money has already been subscribed, and, it is stated, work will be started this summer.

REGINA, SASK.—Bids will be called at once for the construction of the proposed Regina College. The main building will be 200 × 60 ft. and five stories high with two large towers. The heating apparatus will be in a separate building. There will also be several smaller buildings. Address Rev. J. H. Oliver.

LEVIS, B. C.—Bids will be received until April 4 by R. C. Desrochers, Secy., Public Works Dept., Ottawa, for the construction of an armory here. Plans, specifications, etc., on application to A. R. Decary, Dist. Engr., Quebec.

✚VANCOUVER, B. C.—The contract has been awarded to MACDONALD & WILSON, Vancouver, for the construction of the extra wing of the court house on Georgia St., at $348,200.

CAMPBELLTOWN, N. B.—A. W. Campbell, Chr. Government Rys. Managing Bd., Ottawa, Ont., will receive bids until March 25 for the construction of a station here.

CALGARY, ALTA.—The Molson's Bank of Canada has purchased a site here and is now having plans prepared for a bank building.

WATER SUPPLY—IRRIGATION.

(✚*Denotes a contract awarded.*)

WEARE, N. H.—The town is considering the construction of a reservoir. Frank N. Simons is interested.

RUTLAND, VT.—The citizens have voted to issue $30,000 of water bonds. H. B. Whittier is City Clk.

AMHERST, MASS.—Plans are being made for the extension of the mains of the Amherst Water Co. to the village of South Amherst by the way of Shays St.

BOSTON, MASS. — Bids for the following were received by J. E. Mullen, Supt. of Supplies, on March 15: 8,000 lbs., more or less, No. 1 composition castings; 30,000 lbs., more or less, No. 2 composition castings; 3,500 lbs., more or less, No. 3 composition castings. Bids in order of variety of casting were: Essex Brass Foundry Co., Cambridge, Mass., 20¾ cts.; 18¾ cts.; and 14 cts. J. H. McCafferty & Co., 434 Harrison Ave., Boston, 22½ cts.; 21½ cts. and 14 cts., all per lb.

Bids for the following were received on March 14 by J. E. Mullen, Supt. of Supplies: 65 tons, more or less, 6-in., 300 8-in., 275 10-in., 750 12-in., 560 16-in., 560 30-in., and 370 36-in. iron pipe, and 25 special iron castings. The bidders were: U. S. Cast Iron Pipe & Foundry Co., 71 Broadway, New York, $20.70 per short ton for all straight pipe, and $47 for special castings. Standard Cast Iron Pipe & Foundry Co., $20.70 and $50. Florence Iron Works, Florence, Mass., $21.10 and $48. Warren Foundry Co., $22.75 and $45.

Bids will be received until March 27 by Louis K. Rourke, Comr. Pub. Wks., for relaying 2,700 ft. of 12-in. water pipe. The work will include removing smaller-size pipe.

Bids will be received until March 29 by J. Edward Mullen, Supt. of Supplies, Supply Dept., for water-works fittings, as follows: 500 Post hydrant boxes, 700 gate boxes, 600 meter boxes, and 50 blow-off boxes, all of concrete, slab-reinforced design.

Bids have been received by J. Edward Mullen, Supt. of Supplies, Supply Dept., for the following No. 1 castings: 72,000 lbs. curves, 88,000 lbs. sleeves, 100,000 lbs. gates, 110,000 lbs. hydrants, 17,000 lbs. hydrant posts, 115,000 lbs. shoes, 167,000 lbs. branches, 26,000 lbs. reducers, 12,000 lbs. caps, 43,000 lbs. offsets, 200,000 lbs. No. 2 iron castings. Bids were opened on March 15, and no award was made. The bids submitted follow: Mechanic Iron Foundry, No. 1, 2.7 cts. per lb.; No. 2, 2.35 cts. Davis & Farnum Foundry, 2.7 cts. and 2.45 cts. Foxboro Foundry, 2.84 cts. and 2.24 cts. lb.

HOLYOKE, MASS.—The city is having surveys made and plans prepared for a new storage reservoir near Forner, which will hold 650,000,000 gallons. The plans call for a dam 350 ft. long and 48 ft. high. Further information may be obtained from the Clerk, Bd. Water Comrs. Noted on March 16.

✚MEDFORD, MASS.—We are officially advised that contracts have been awarded as follows by the Water and Sewer Commissioners: For furnishing c. i. water pipe, to CHARLES MILLAR & SONS CO. of Utica, N. Y.; for sewer pipe, to BERRY & FERGUSON, Boston, Mass. Bids were opened on March 20.

✚NEW BRITAIN, CONN. — The contract for supplying water pipe has been awarded to R. D. WOOD & CO., 400 Chestnut St., Philadelphia, Pa., at $22.02 per ton.

✚NOROTON, CONN.—We are officially advised that the contract for laying mains for the Noroton Water Co. has been awarded to

FREDERICK S. WARDELL, of Stamford, Conn. About 800 tons of pipe will be required.

+ELMIRA, N. Y.—The contract has been awarded to MASON, HILTON & CO., 17 Battery Pl., New York, for the construction of the new reservoir for the Elmira Water, Light & R. R. Co. The reservoir will be 226 ft. long and 200 ft. wide, with a capacity of 5,000,000 gallons. Estimated cost, $190,000.

+FORT TERRY, N. Y.—The contract has been awarded to the CONNECTICUT ENGINEERING CO., of Norwich, Conn., for the construction of a 200,000-gallon reinforced concrete reservoir, at $6,750, and for extension of water mains, at $1,050. Bids were opened on Feb. 28 by Capt. F. T. Arnold, Constr. Q. M., U. S. A., New London, Conn. Noted on March 9.

NEW YORK, N. Y.—Bids will be received by George McAneny, Boro. Pres., until 2 p. m., April 3, for furnishing all the labor and materials required for reconstructing outlet sewer and appurtenances at the foot of 79th St., East River.

NEW YORK, N. Y.—Bids will be received by Henry S. Thompson, Comr. Water Supply, Gas and Electricity, until 2 p. m., April 3, for furnishing, placing, repairing, replacing and emptying vault pans in the vicinity of Mt. Kisco, Westchester County, N. Y.

NEW YORK, N. Y.—Bids will be received by Henry S. Thompson, the Comr. Water Supply, Gas and Electricity, until 2 p. m., March 29, for making test borings. Section 1, for a proposed pressure tunnel crossing under the Harlem River, north of Central Bridge. Section 2, for three proposed tunnels, one at Westchester Ave. and Bronx River, one at River Ave. and New York Central R. R., and one at 135th St. and Mott Haven Canal.

NEW YORK, N. Y.—The Board of Estimate and Apportionment, it is reported, is planning to improve the water supply system in Brooklyn and Queens Boroughs. The sum of $100,000 will be used this year for extensions to the high-pressure fire system in Queens Borough.

ROCHESTER, N. Y.—The cost of extending the water distribution system has been estimated by E. A. Fisher, City Engr., at $175,000. Larger mains will be necessary in 23 streets.

St. JOHNSVILLE, N. Y.—The village is considering the installation of a water-works system. Estimated cost, $5,000.

MC KEESPORT, PA.—Bids will be received by C. E. Soles, City Controller, until 4 p. m., March 28, for furnishing the water department with c. i. water pipe and special castings, gate valves and gate valve boxes, lead pipe and pig lead, brass curb stops, brass corporation stops and stop and waste, etc. D. M. White is Supt. Water Dept.

BALTIMORE, MD. — The Water Board, on March 16, approved the plans of Alfred M. Quick, Water Engr., for new equipment for the Mount Royal pumping station. Estimated cost, $175,000.

BALTIMORE, MD.—Specifications will be ready soon for improving the water supply system. Plans for the construction of the filtration plant to cost $1,500,000 will be completed first, it is expected. This work is to be done under the $5,000,000 water loan. Alfred M. Quick is Water Engr.

BLACKSBURG, VA.—The city is considering the construction of a water-works system. F. W. Eheart is Mayor.

BLACK MOUNTAIN, N. C.—The town is considering the construction of a water-works and sewer system. Estimated cost, $15,000.

+AUGUSTA, GA.—Bids were received on March 2 for furnishing 11,750 ft. of 12 to 6-in. c.-i. water pipe. The contract has been awarded to the GENERAL PIPE & FOUNDRY CO., of Atlanta, Ga., at $21.75 per ton. The contract for laying the pipe has been awarded to HALLAHAN & COSTELLO, of Augusta, as follows: 12-in., 33 cts. per lin. ft.; 10-in., 25 cts.; 8-in., 25 cts.; 6-in., 18 cts.

McDONOUGH, GA.—The City Council has decided to construct a water-works system. A survey will be made and plans prepared by the J. B. McCrary Co., Atlanta, Ga.

HUNTSVILLE, ALA.—The City Council has authorized the purchase of a water-purification plant to be installed at the pumping station.

TALLADEGA, ALA.—The city is considering the construction of improvements to the water system. Morris Knowles is Engr., Pittsburg, Pa.

MARKS, MISS. — The city will probably receive bids in May for drilling an artesian well, laying mains and installing necessary machinery for furnishing the city with water. Estimated cost, $5,000. Noted on March 2.

CLARKSVILLE, TENN. — The city will probably open bids about May 1 for the erection of a building for the water-works of steel, brick and concrete construction, 60 × 300 ft. Two turbine centrifugal pumps and steel standpipe of 290,000 gallons' capacity will be required. Plans by Hazelhurst & Anderson, Atlanta, Ga. S. J. Love is Supt. W.-Wks.

BROOKVILLE, OHIO.—The city, it is reported, will construct an underground reservoir with a capacity of 5,000,000 gallons. Estimated cost, $264,000.

+CANTON, OHIO.—The county has awarded the contract to the C. N. CARPENTER SUPPLY CO., of Canton, for furnishing c.-i. pipe for the year, at $30 per ton. The CANTON CULVERT CO. was the only bidder for the contract for furnishing corrugated pipe, and received the contract. The prices vary according to the size of the pipe, which runs from 8 to 72 ins.

*CINCINNATI, OHIO.—Bids will be received at the office of the Director of Public Service, City Hall, until noon, April 10, for the construction, delivery and erection of two turbine water wheels in the head house of the filtration plant of the Water Department, located at California, Ohio. Plans, specifications and blank proposals can be obtained at the office of the General Superintendent of Water Works. John J. Weaver is Clk.

CLEVELAND, OHIO.—Bids will be received by A. B. Lea, Dir. Pub. Ser., until noon, March 24, for furnishing valves and hydrants for the water department.

NEW LEXINGTON, OHIO. — Three bids were opened, as follows, on March 14, by the city for the construction of water-works: The National Co., South Bend., Ind., $62,165; United States Construction Co., Columbus, Ohio, $62,900; Bohn & Kern, Zanesville, Ohio, $68,741.

COLUMBUS, IND.—The City Council has employed an engineer to prepare plans and specifications for the installation of a modern filtration plant.

EVANSVILLE, IND.—The Board of Public Works will install a new pump at the water-works pumping station. Estimated cost, not more than $10,000. John W. Peck is Supt. W.-Wks.

DETROIT, MICH.—Bids will be received by the Board of Water Commissioners until noon, March 28, for 300 tons of special water-works castings. Benj. F. Guiney is Secy. Water Dept.

+MOUNT CLEMENS, MICH.—The contract has been awarded to FAIRBANKS, MORSE & CO., of Beloit, Wis., for furnishing a pumping engine for the water-works, at $5,660, and to WILLIAM BARAGWANATH & SON, of Chicago, Ill., for the condenser. Bids were opened on March 3.

+NILES, MICH.—We are officially advised that the contract for the new boiler house, tunnel and stack for the city has been awarded to A. W. RICHMAN, of Niles. John O. Chubb is Arch., 816-818 Chicago Opera House, Chicago, Ill.

+CHICAGO, ILL.—The contract has been awarded to the PLATT IRON WORKS, of Dayton, Ohio, for the installation of two 25,000,000-gallon motor-driven centrifugal pumps for the 22d St pumping station, at $53,949. Other bidders were: Worthing, Bassler & Co. (six bids), $89,468 to $40,593; Alberger Pump Co., $41,517; Lathbury-D'Olier Co., $41,562; Camden Iron Works, $46,434; L. H. Prentice & Co., (two bids), $52,023 and $52,749; Platt Iron Works Co. (four bids), $53,949 to $55,610; Gindele Bros. & Co. (two bids), $58,200 and $55,900. Each unit is a horizontal shaft single-stage pump direct connected to an alternating-current motor capable of delivering 25,000,000 gallons daily under a total head of 115 ft. The contract includes bed plates, starting apparatus, switchboards and equipment, exciters and transformers to step down the current from 12,000 to 440 volts, wire connections, suction pipe from the pumps to the well, discharge piping to four feet outside of the building, two check valves and four hydraulically operated gate-valves.

JOLIET, ILL.—The City Council is considering sinking two additional artesian wells.

RIVERSIDE, ILL.—Bids will be received by R. H. Ripley, Pres. Bd. Local Improvements, until 8 p. m., March 24, for laying c. i. water supply pipe and water service pipe in portions of several streets. Plans may be seen at the office of the Commissioner of Public Works and at the office of C. N. Roberts, Engr., 97 Clark St., Chicago, Ill.

WHEATON, ILL. — Bids will be received until 8 p. m., March 23, by the city for the Local Improvements for extending the water mains in Harrison Ave. Arthur L. Webster is City Engr.

PRESCOTT, WIS. — Bids will be received until 2 p. m., March 30, by the city for the construction of a gravity water-works system, consisting of the following: About 20,000 ft. of 4-in., 6-in., 8-in. and 10-in. c.-i. water pipe, with valves, hydrants, specials, etc.; concrete or brick pump house; 20-HP. motor and triplex or duplex power pump; system of 2½-in. driven points for water supply. Plans and specifications are on file at the office of R. H. Price, City Clk., or may be seen at the offices of the Oscar Claussen Engineering Co., Consult. Engr., St. Paul, Minn.

TWO RIVERS, WIS.—The Water and Light Commission has engaged Prof. Charles Sumner Schlichter, of the University of Wisconsin, to make investigations looking toward the securing of a suitable supply for the municipal water-works.

WATERTOWN, WIS.—We are officially advised that the contract has been awarded to F. L. MC CARTHY, of Minneapolis, Minn., for drilling a deep well. Bids were opened on March 18.

+ADAIR, IOWA. — The contract for the construction of water-works and electric lighting systems has been awarded by the town to the DES MOINES BRIDGE & IRON CO., of Des Moines, Iowa, at $28,460. The W. K. Palmer Co., Dwight Bldg., Kansas City, Mo., are Engrs. Bids were opened on March 10.

+ATLANTIC, IOWA.—The contract for the construction of water-works and lighting improvements here has been awarded to the JOSEPH A. BORTENLANGER CO., of Omaha, Neb., at $43,000. The W. K. Palmer Co., Dwight Bldg., Kansas City, Mo., is Engr.

+*BOONE, IOWA.—Bids were received as follows on March 8, at the office of Otto Hile, City Clk., for constructing water mains from the Des Moines River pumping station to the city pumping station, together with suction mains at the river station. The contract, it is reported, has been awarded to the DES MOINES BRIDGE & IRON CO., of Des Moines, Iowa.

SIOUX CITY, IOWA. — The Council will soon ask for bids for the erection of a pumping station, including the installation of three automatic turbine pumps at the Morningside Station.

*SIOUX CITY, IOWA.—Bids will be received by the City Clerk until 9 a. m., April 8, for the installation of three centrifugal pumps with D. C. motors. Specifications at office of G. B. Healy, Supt. Parks and Public Property, Sioux City.

WEBSTER CITY, IOWA.—Bids will be received by the City Council until 6 p. m., March 29, for improvements to the water-works system. P. M. Banks is City Clk.

+MADISON, MINN. — The contract for drilling a well here, bids opened on March 6, has been awarded to F. F. GRAY, JR., & CO., of Milwaukee, Wis., at $3,25 and $4.16 per ft.

MINNEAPOLIS, MINN.—Bids will be received until March 31 by Henry N. Knott, City Clk., for the masonry work on the water tower on Lowry Hill.

+The contract for furnishing water pipe, it is reported, has been awarded to the U. S. CAST IRON PIPE & FOUNDRY CO., at $24 per ton, or $96,000.

MINNEAPOLIS, MINN.—We are officially advised that bids were received as follows, on March 10, by the City Council, for furnishing 175 double-steamer hydrants: James B. Clow & Sons, Chicago, Ill., (Eddy), $39, f. o. b. Minneapolis, 700 lbs. Chickasaw Iron Works, Minneapolis, without frost jackets, $46.85, f. o. b. Minneapolis; with frost jackets, $53.50, f. o. b. Minneapolis, 1,200 lbs. Darling Pump & Mfg. Co., Williamsport, Pa., $40, f. o. b. Minneapolis, 800 lbs. Rensselaer Valve Co., Chicago, Ill., without jackets, $39.25, f. o. b. Minneapolis, 795 lbs. Columbian Iron Works, Chattanooga, Tenn., $35.80 and $31.85, f. o. b. Chattanooga, 800 lbs. Florence Iron Works, Philadelphia, Pa., with jackets, $36; without jackets, $34, f. o. b. Minneapolis, 982 lbs. Kennedy Valve Co., Elmira, N. Y., $45.74 and $43, f. o. b. Elmira, 740 lbs

COLDWATER, KAN.—Bids will be received by W. F. Baker, City Clk., until 1 p. m., March 30, for the construction of a water-works system. Plans may be seen at the office of the City Clerk, and at the office of the J. S. Worley Co., Engrs., Reliance Bldg., Kansas City, Mo.

+FAIRBURY, NEB. — The contract has been awarded to MARSHALL BROS., of Las Animas, Colo., by the city for furnishing the necessary labor and material for the construction of extensions to the water-works system and electric light plant, at $9,778 The work includes hauling and laying pipe, hydrants, valves, erecting one 150-KW. generator, one 100 steam turbine set, heater, condenser, steam piping power house, flooring and pump pit. Burns & McDonnell, Scarrett Bldg., Kansas City, Mo., are Engrs. Bids were opened on March 9.

KENESAW, NEB.—Bonds for $18,500 have been voted for the construction of a water-works system here.

LODGEPOLE, NEB.—Bids will be received until 9 a. m., April 3, by the city for the construction of water-works. Estimated cost, $10,000. George W. Sethman is Engr., Equitable Bldg., Denver, Colo.

FARGO, N. DAK.—The city, we are officially advised, proposes to construct a pumping station and a filtration plant. Estimated cost, $100,000. A. J. Craig is Supt. W.Wks.

+PIERPONT, S. DAK.—We are officially advised that bids were received, as follows, on March 13, by the city for 1,820 ft. of 6-in. and 6,460 ft. of 4-in. c.-i. pipe, 17 hydrants. and valves and fittings: W. D. Lovell, Minneapolis, Minn., $10,281; L. W. Schruth, Fargo, N. Dak., $8,503; Fraser & Danforth, Eau Claire, Wis., $8,681; Hoar & Parkinson, Iowa City, Iowa, $8,746; Heingel-Johnson, Minneapolis, $8,821; TANNER BROS., Webster, S. Dak., $7,684 (awarded contract).

CODY, WYO.—A new canal, known as the Hubbard Canal, will be constructed soon near Cody, it is reported. The water will be taken from the mouth of Clark's Fork Canyon. It is probable that about 50,000 acres of land will be reclaimed. Estimated cost, between $500,000 and $600,000.

LARAMIE, WYO. — We are officially advised that the city proposes to construct additions to the water supply and sewerage systems. Estimated cost, $55,000 and $15,000, respectively.

+SHERIDAN, WYO.—The contract for the installation of the water-works system has been let to the JAMES KENNEDY CONTRACTING CO., of Fargo, N. Dak., at about $30,000.

CULBERTSON, MONT.—Thomas S. Shepard, Engr., Denver, Colo., has been engaged to advise the city regarding the installation of a municipal water-works system.

COLUMBIA, MO.—Bids will be received until 7.30, March 28, for furnishing hydrants, valves, valve-boxes and special fittings for extensions of water mains. As soon as specifications are printed bids will be advertised for the construction of a power plant for water and light system including equipment. Estimated cost $70,000. John S. Bicknell is City Clk.

MENA, ARK.—We are officially advised that bids will be asked in about 60 days for water-works improvements here. Estimated cost, between $60,00 0and $70,000. John Thompson is Chn. Water Bd. Noted on March 16.

ALVIN, TEX.—See item under Light, Heat and Power.

BROWNSVILLE, TEX. — The Brownsville Irrigation Co., which recently passed into new hands, will enlarge the capacity of its pumping plant. The present capacity of the plant is sufficient to water about 15,000 acres. It will be enlarged to water about 40,000 acres. The company's system of irrigation is situated near here.

GOLIAD, TEX.—The Goliad Supply Co. has been organized for the purpose of installing a water-works system, an ice factory and electric light plant here.

SHERMAN, TEX. — The city has voted $20,000 of bonds for improvements to the water-works.

TIMPSON, TEX. — The City Council will order an election to vote on the proposition of issuing $20,000 of bonds for constructing a water-works system.

TULSA, OKLA.—Bids will be received by R. E. Curran, County Clk., at the office of the County Commissioners, Tulsa County, until 4 p. m., March 31, for furnishing and installing a pneumatic water-supply system and exhaust pump in new Tulsa County Court House, system to be in accordance with plans and specifications which can be obtained at offices of Winkler & MacDonald, Archs., Tulsa. R. E. Curran is County Clk.

DENVER, COLO. — The enlargement of Barr Lake, one of the principal impounding stations of the system of Denver Reservoir Irrigation Co., will be undertaken, it is reported, by the Oasis Water Supply, Park & Improvement Co.

+LEWISTON, IDAHO. — The Lewiston Orchards Co. has awarded a contract to the CRANE CO., of Spokane, Wash., for g. i. pipe to be used in installing the irrigation system in Lewiston vineyards. Estimated cost, about $9,000.

OGDEN, UTAH.—The city is considering the construction of a large new reservoir.

+PARKER, ARIZ.—The contract for constructing the water and sewer system here for the Department of Indian Affairs has been awarded to the DES MOINES BRIDGE & IRON CO., of Des Moines, Iowa, at $5,460.

PARKER, ARIZ.—The President, it is reported, has signed a bill authorizing the Greeley-Arizona Irrigation Co., of Greeley, Colo., to construct a diversion dam across the Colorado River at Parker. W. B. Starr, of Greeley, is interested.

TEMPE, ARIZ.—Julius Beeman, Hydraulic Engr., San Francisco, Cal., has submitted two propositions to the Drainage Committee of the Tempe Canal Co., one to install two pumping plants, complete, engine and pump; the other, a generating plant, the current to be transmitted to the pumping plants. Estimated cost, $12,000 each for pumps f. o. b. Tempe, other work extra; $44,000 for the second proposition.

TUCSON, ARIZ.—Bids will be received by L. O. Cowan, City Clk., until 4 p. m., April 12, for the erection of a stand pipe 90 ft. high, capacity of 1,000,000 gallons, to be constructed of concrete according to plans and specifications to be furnished by the bidder.

TACOMA, WASH.—Bids will be received until noon, April 1, by Nicholas Lawson, Comr. Light and Water, for the construction of a reservoir. The work will consist of furnishing all the labor and material necessary for constructing a concrete-lined reservoir, with by-pass gate-houses and chambers, with the necessary gates and screens; also, same date, for laying the pipe line from the head-works at Palma Junction to the 100,000,000-gallon reservoir at McMillan, 27 miles. Estimated cost, $800,000. Plans and specifications are on file at the office of the Commissioner.

+WHITE BLUFFS, WASH.—It is reported that W. A. Harrison and others interested in the Terrace Pit District have awarded a contract to the PACIFIC PIPE & TANK CO., of Portland, Ore., for 50,000 ft. of 12-in. wood standpipe to be used in irrigation in this section.

BAKER CITY, ORE.—We are officially advised that the city proposes to construct water-works improvement, to cost $150,000. G. W. Henry is Supt. W.-Wks.

+SILVERTON, ORE.—The contract for the construction of a water and sewer system has been awarded by the city to the MARS CONSTRUCTION CO. of Seattle, Wash., at $63,940. Other bidders were: G. Jaeger, Rich Hill, Mo., $65,450; Jeffery & Buffton, Portland, Ore., $66,320; American Light & Power Co., Chicago, Ill., $67,965; K. Lanlset, Corvallis, Ore., $68,745; T. B. Shepherd, Denver, Colo., $70,260; Jacobson, Bade & Co., Portland, Ore., $71,180.

+COVINA, CAL. — The Covina Irrigating Co. is having plans prepared for a reinforced concrete reservoir, to have a capacity of 1,500,000 gallons and to be constructed on the San Bernardino Road, at Baldwin Park. It will be connected by a pipe line 21,000 ft. in length, with the company's pumping plant to be erected on Lark Ellen St. A contract has been awarded to the H. U. TRACY ENGINEERING CO., Central Bldg., Los Angeles, for installing the pumping plant, to consist of a 200-HP. Corliss steam engine and a 48-in. Byron-Jackson turbine pump, at a cost of $38,000. Another provisional contract has been awarded to the same company to construct the second unit of the pumping plant at a later date. The cost of this work will be $53,000.

+ESCONDIDO, CAL.—Seth Hartley, of Escondido, has awarded a contract to A. G. THORNTON, of Colton, Cal., for the construction of 20 miles of concrete piping for irrigating purposes on the Berendo Ranch south of Escondido. Six miles of the pipe will be 16-in., and the remainder 10 to 14-in. A 100-HP. pumping plant will also be installed.

ESCONDIDO, CAL. — The Escondido Mutual Water Co. will replace its present flume system with cement-lined conduit, 4,500 ft. required. A tunnel 1,900 ft. will be drilled. The company will also install a rock-crushing plant, to be used for concrete conduit construction.

FORT BAKER (Sausalito post-office), CAL.—Maj. George McK. Williamson, Q. M., U. S. A., Fort Mason, Cal., will receive bids until April 4 for reconstructing pump house, installing machinery, laying 6-in. water main and erecting steel water tank at Fort Baker.

LOS ANGELES, CAL.—J. W. Sharp, 642 West Hollywood Boulevard, has purchased a 5,000-acre tract in Little Simi Valley and will install a large irrigating system, to cost $75,000. A 5,000,000-gallon reinforced concrete reservoir will be constructed. The distributing system will consist of pipe from 32-in. down. Both steel and concrete pipe are under consideration. If concrete pipe is decided upon a plant for its manufacture will probably be installed. A large pumping plant is included in the plans.

LOS ANGELES, CAL. — The Dominquez Water Co., 419 Wilcox Boulevard, will construct a large pumping plant, reservoir and irrigating system on the old Dominquez ranch, south of this city. The reservoir will have a capacity of 15,000,000 gallons, and will be oiled (lined) and located about ten miles distant from the pumping plant and connected with a 33-in. riveted steel main, the laterals to be 8 to 12-in. pipe, aggregating 40 miles. The water will be obtained from a chain of driven wells and blown from the wells by compressed air, and will flow by gravity through a cement-lined ditch to the pumping plant, a distance of two miles. The pump house will be of reinforced concrete, 50 × 150 ft., with steel doors, the plant to consist of two Stirling boilers, Class A, with a heating surface of 2,805 sq. ft. each; two Laidlaw-Dunn-Gordon air compressors (14-27 and 19-24), pump to be cross-compound condensing Corliss (16-34 and 16-36); capacity, 8,000,000 gallons per day; feed pumps, Smith-Vail, 7-4½ × 10 duplex outside packed; also an Allis-Chalmers end-driven generator set, with open-end feed water heater; concrete slump, 60 × 80 ft., 10 ft. deep. A pump with a capacity of 4,000,000 gallons will be installed later, together with centrifugal pumps for gravity irrigation. The cost of the system and plant will be $500,000. Chester B. Loomis, Central Bldg., Los Angeles, is Engr. for the company.

OROVILLE, CAL.—The Sutter-Butte Canal Co., it is reported, has been incorporated with a capital of $1,250,000, to construct an irrigation system and other improvements in Butte and Sutter Counties, including the erection of stamp mills, etc. The incorporators are: William Rowlands and G. H. Kellogg, of Berkeley; Thomas H, Breeze, of Fair Oaks, and others.

SAN FRANCISCO, CAL.—The Board of Public Works has received an appropriation of $10,066 from the Board of Supervisors to lay fire-protection pipes in Market St., from Second to Berry Sts. It is understood that the work will be an experiment, and if successful, it is probable more pipe will be laid by the city. Marsden Manson is City Engr.

SAN FRANCISCO, CAL.—Bids will be received by the Board of Public Works until 2 p. m., March 29, for the following street work, including furnishing the necessary labor and material: For the construction of Section "B" of the intake tunnel for the Townsend St. Pumping Station of the Auxiliary Water Supply System for Fire Protection; also for the construction of Section "A" of the system. Marsden Manson is City Engr.

SIERRA MADRE, CAL.—The Board of Trustees is considering the purchase of the supply sources and distributing system of the Sierra Madre Water Co. An election to vote upon an issue of $100,000 of bonds will be called.

VALLEJO, CAL.—Bids will be received by the Board of Public Works until April 3 for laying a 14-in. pipe line from Fleming Hill to Georgia St., and an 8-in. main from Georgia St. to Fourth St., South Vallejo.

WINTERS, CAL.—The contract will be awarded in about 60 days for the construction of water-works. Plans by the O'Neill Engineering Co., Winters. Estimated cost, about $20,000.

ST. CATHERINES, ONT.—The Private Bills Committee of the Ontario Legislature, on March 14, passed the bill of this city authorizing an expenditure of $180,000 for the extension of the water-works system.

TORONTO, ONT.—The Board of Control, it is reported, has recommended the appointment of T. Aird Murray, Consult. Engr.; J. T. Sing, Government Engr., both of Toronto; and J. Randolph, of Chicago, Ill., as a board of experts to investigate the entire water-works system in Toronto, and report concerning the best means of meeting the city's need of pure water.

*WINNIPEG, MAN.—Bids addressed to the Chairman, Board of Control, will be received at the office of M. Peterson, Secy. Bd., until 11 a. m., April 5, for the manufacture and erection of a horizontal turbine pump of 2,500,000 gallons capacity per 24 hours.

WINNIPEG, MAN.—Bids will be received until 11 a. m., April 19, by M. Peterson, Secy. Bd. Control, for the construction of a wooden stave conduit pipe line. Specifications may be seen at the office of H. N. Ruttan, City Engr.

✚The contract has been awarded to I. BENOIT, St. Boniface, Man., at $32,330, for the erection of a 1,000,000-gallon reservoir.

EDMONTON, ALTA.—Bids will be received by the City Commissioners until March 24 for supplying c. i. pipe and valves that may be required during the year 1911. Specifications can be obtained at the Water Department, Rice St. and McDougall Ave.

EDMONTON, ALTA.—Bids will be received until 8 p. m., April 8, by the City Commissioners for a quantity of water meters. Specifications may be obtained at the Water-Works Department.

MONCTON, B. C.—We are officially advised that contracts for the construction of water-works will probably be awarded in the early part of May. Noted on March 16.

PENTICTON, B. C.—Plans will soon be complete for the construction of water-works and light and power systems here. F. H. Latimer is Engr.

VICTORIA, B. C.—C. H. Topp has been retained by the city to survey the north end of Sooke Lake, looking to the construction of a large water-works system.

SEWERS.

(*Denotes that this work is advertised in Engineering News.)

EAST HARTFORD, CONN.—Bids will be received by William H. Brewer, Pres. Willow Brook Sewer Assn., until 8 p. m., April 1, for building about 1,500 lin. ft. of sewer on or near South Main St. Plans and specifications with Mr. Brewer.

SOUTH MANCHESTER, CONN.—The South Manchester Sanitary and Sewer District is planning the construction of a concrete intercepting sewer and a 24-in. tile storm sewer of considerable length on the East Side. Address the Secretary Sewer District.

ALBANY, N. Y.—Bids will be received until noon, March 23, by C. E. Treman, Supt. of Public Wks., for 4,200 ft. vitrified pipe.

ELMIRA, N. Y.—See item under Streets and Roads.

NEW YORK, N. Y.—Bids will be received by Alfred E. Steers, Boro. Pres. of the Boro. of Brooklyn, until 11 a. m., March 29, for furnishing all the labor and material required for constructing sewer basins at the southwest corner of Underhill Ave. and St. Johns Pl.; at the southwest corner of Underhill Ave. and Sterling Pl., and at the southeast corner of Butler Pl. and Sterling Pl.; at the southeast corner of Underhill Ave. and Lincoln Pl., and at the northeast corner of Underhill Ave. and Eastern Parkway, and an outlet sewer in Underhill Ave., from St. Johns Pl. to Eastern Parkway; labor and material required for sewer in Livonia Ave., between Saratoga Ave. and Howard Ave.; for labor and material required for sewer in East 21st St., from Regent Pl. to Beverly Rd.; for labor and material required for sewer in Sutter Ave., between Tapscott St. and Howard Ave.; for labor and material required for sewer in Hubbard Pl., between Flatbush Ave. and East 39th St.

*SOUTH ORANGE, N. J.—Bids will be received by the Township Committee, South Orange, until 8 p. m., April 11, for the construction of sanitary sewers for the Hilton Dist. The work includes the construction of 5,106 ft. of 12-in. pipe, 8,930 ft. of 10-in. pipe, 4,532 ft. of 8-in. pipe, 59 manholes, 4 flush tanks. Plans can be seen and specifications secured at the office of the engineer, Alexander Potter, 114 Liberty St., New York, and at the office of the Township Clerk, Maplewood, N. J., on and after March 25. Edward Arcularius is Township Clk.

BEAVER FALLS, PA.—Leo Hudson, Consult. Engr., Haverstraw, N. Y., has been retained by the city to design a comprehensive system of sewers and a sewage disposal plant.

McKEESPORT, PA.—Leo Hudson, Consult. Engr., Haverstraw, N. Y., has been retained by the city of McKeesport, Pa., in the preparation of a comprehensive design for a new sewer system and sewage disposal plant. This work has been under progress for three or four months and it is the intention of the engineers to have the work completed this year.

*ATLANTA, GA.—The following bids were received by the Mayor for the construction of the Intrenchment Creek disposal plant: (A) Chester A. Dady; (B) Piedmont Construction Co.; (C) Nichols Contracting Co.; (D) Interstate Construction Co.; (E) Dysard Construction Co.; (F) Noll Construction Co.; (G) Meeks Construction & Equipment Co.; (H) Mackle-Crawford Construction Co.: (A) Disposal works (regular), $192,577, (awarded) (alternate) $192,577; aqueducts, (Colliars Bridge) $22,300. (B) Disposal works, (regular) $199,957 (alternate) $201,257; intercepting sewers, Section 3, (monolithic) $50,761 (reinforced) $45,836; Section 4, (monolithic) $40,846, (reinforced) $40,721. (C) Disposal works, (regular) $211,413, (alternate) $215,794; intercepting sewers, Section 3, (monolithic) $44,178, (reinforced) $51,218; Section 4, (monolithic) $34,487, (reinforced) $39,337; aqueducts, (Du Bose) $7,170 (awarded) (Colliars Bridge) $8,315 (Parker) $5,775. (D) Disposal works, (regular) $21,062, (alternate) $21,590. (E) Intercepting sewers, Section 3, (monolithic) $45,740, (reinforced) $52,890; Section 4, (monolithic) $34,440, (reinforced) $39,490; aqueducts, (Parker) $54,000 (awarded). (F) Intercepting sewers, Section 3, (monolithic) $36,634 (awarded), (reinforced) $40,524; Section 4, (monolithic) $28,629 (awarded), (reinforced) $31,.299. (G) Intercepting sewers, Section 3, (monolithic) $41,627, (reinforced) $51,152; Section 4 (monolithic) $37,341, (reinforced) $43,726. (H) Aqueducts, (Du Bose) $8,100, (Colliars Bridge) $7,400 (awarded), (Parker) $7,000.

AMHERST, OHIO.—Bids will be received April 20 by City Council for the construction of the sewage disposal plant and a sewer system.

ASHTABULA, OHIO.—See item under Streets and Roads.

CLEVELAND, OHIO.—Bids will be received by John Goldenbogen until 11 a. m., April 5, for the construction of storm sewers.

COLUMBUS, OHIO.—Resolutions have been adopted by the City Council declaring it necessary to construct a sewer in Sullivan St., from McDowell St. to Furnace St.; in 13th Ave., from Summit St. to the Big Four tracks; in Walnut St., from Mitchell to Stokes Alley.

✚COLUMBUS, OHIO.—The contract has been awarded to D. E. SULLIVAN for the construction of the Dry Run cutoff sewer.

DAYTON, OHIO.—Bids will be received until noon, March 23, by William A. Budroe, Clk. Bd. of Pub. Ser., for construction of storm sewers in various streets.

ELYRIA, OHIO.—The Board of Control will advertise for bids soon for the construction of the Broad St. and West Ave. sanitary sewer.

KENTON, OHIO.—Sewer construction to the amount of $45,000 will be done this year as follows: Storm sewer: Liberty St., from Saxton St. to creek, $29,000; sanitary sewers included in list: East Fourth and Warner, from Tuscarawas to Fourth and Fourth to Schwalm, $1,200; Cedar and Camden, from Schroyer to first alley west of Clifton, and Cedar to Hampden, $2,800; Third, Balser, Schwalm, Walser, Ross, Hurford, Carnahan and North, $5,400.

YOUNGSTOWN, OHIO.—Bids will be received by the Director of Public Service until noon, March 23, for cast-iron basins and manholes for ensuing year. W. H. McMillin is Clk.

SOUTH BEND, IND.—The Board of Public Works is preparing to let a contract for the construction of the Bowman Creek sewer. Bids will be received after plans and specifications are completed. Frank P. Christoph is City Clk.

*CHICAGO HEIGHTS, ILL.—Bids are asked until 7.30 p. m., April 5, by the Board of Local Improvements, for the construction of storm sewer No. 3, also sewer pipe. W. E. Leinnertz, is Secy. of Bd. For details, see advertisement in this issue.

FREEPORT, ILL.—An ordinance has been passed by the City Council authorizing the construction of a sewer system in West Freeport, at an estimated cost of $12,490. John A. R. Daniels is City Engr.

MONMOUTH, ILL.—Sanitary and storm water sewers will be constructed here at an estimated cost of $10,000. J. S. Brown is Pres. Bd. Local Improvements.

WHEATON, ILL.—Bids will be received until 8 p. m., March 23, for extensions to the sewer system here. Arthur L. Webster is Engr.

APPLETON, WIS.—Bids will be received until 2 p. m., March 30, by the Board of Public Works for sewer construction in various streets. E. L. Williams is City Clk.

BURLINGTON, WIS.—Bids will be received by the Board of Public Works until March 24 for furnishing labor and materials necessary to construct storm sewers, together with all necessary manholes, street inlets, etc., and sanitary sewers. The work includes 1,250 lin. ft. of 15-in. vitrified pipe sewer, 338 lin. ft. of 12-in. vitrified pipe sewer, 478 lin. ft. of 10-in. vitrified pipe sewer, 290 lin. ft. of 8-in. vitrified sanitary sewer.

✚SHAWANO, WIS.—The contract has been awarded to JOHN BROGAN, Green Bay, Wis., for constructing sewers in districts 1 and 2. Bids were opened on March 7.

SOUTH MILWAUKEE, WIS.—Bids will be received by John H. O'Connell, City Clk., until April 6 for the construction of a sewerage system and purification plant. Alvord & Burdick, 140 Dearborn St., Chicago, Ill., are Engrs.

ELDORA, IOWA.—E. L. Marriage, Audr. Hardin County, will receive bids until noon, March 24, for construction of four tile ditches. Estimated cost is $38,721. S. B. Gardner is Engr.

CLINTON, IOWA.—Bids will be received by W. E. Hayes, City Clk., until April 4 for the construction of main and lateral sewers in said city, consisting of 300 ft. 48-in. 2-ring brick sewer, 500 ft. 48-in. 1½-ring brick sewer, 400 ft. 42-in. 1½-ring brick sewer, 1,343 ft. 30-in. 1½-ring brick sewer, 765 ft. 36-in., 1,988 ft. 30-in., 2,452 ft. 24-in., 1,544 ft. 20-in., 3,560 ft. 18-in., 2,993 ft. 15-in., 11,515 ft. 12-in., 7,165 ft. 10-in., 5,513 ft. 10-in. pipe sewer, 14,880 cu. yds. rock excavation, 76 manholes, 62 catch basins, 122 inlet basins. Reuben C. Hart is City Engr.

DES MOINES, IOWA.—Bids will be received until 9 a. m., March 31, for furnishing sewer and drain pipe for the ensuing year. Horace Sasong is City Clk.

ALBERT LEA, MINN.—Bids are asked till April 7 for 3,475 lin. ft. 8-in. pipe sewer, manhole 86 house ys. W. Barneck is City Engr.

HURON, S. DAK.—Bids will be received by the City Board of Commissioners until 8 p. m., March 27, for sewer extensions including approximately 430 lin. ft. of 20-in. and 860 lin. ft. of 18-in. vitrified pipe sewer. C. F. Koep is Mayor.

✚*POCATELLO, IDAHO.—The following bids were received on March 9 by W. A. Samms, City Engr., for the construction of trunk sewers here. Hering & Fuller, 170 Broadway, were Consulting Engineers: Moran Contracting Co., Ogden, Utah, $75,089; Gillis Construction Co., Salt Lake City, Utah, $77,179; F. W. Whittier, Twin Falls, Idaho, $80,599; Bannock Engineering Co., Pocatello, Idaho, $81,834; Lindstrom & Oren, Butte, Mont., $87,999; Peter O'Brian Construction Co., Denver, Colo., $89,180; Montague & O'Reilly, Portland, Ore., $90,397; W. W. Cook & Son, Junction City, Kan., $94,204; Strange & Maguire, Salt Lake City, Utah, $94,275; George Irving, Salt Lake City, Utah, $94,345; E. M. Ely, Wichita, Kan., $95,444; James Kennedy Construction Co., Salt Lake City, Utah, $97,434; R. M. BARDSON & CO., Butte, Mont., $69,833 (awarded contract). The engineer's estimate was $92,494.

PARKER, ARIZ.—See item under Water Supply—Irrigation.

YUMA, ARIZ.—A. L. Sonderegger, Central Bldg., Los Angeles, Cal., has prepared plans for and bids will be received until March 27 by Frank Stanley, City Clk., Yuma, for the construction of a municipal sewer system, requiring 960 ft. 18-in. pipe, 530 ft. 12-in., 1,050 ft. 10-in., 350 ft. 8-in., manholes, catch basins, etc.

SILVERTON, ORE.—See item under Water Supply—Irrigation.

BAKERSFIELD, CAL.—The City Engineer is preparing plans for a sewer district to cost $25,000. Bids will be asked for soon.

BOULDER CREEK, CAL.—Bids will be received until April 5 by the Board of Trustees for construction of a sewer in Railroad Ave. James M. Maddock is Town Clk.

✚CALEXICO, CAL.—The City Trustees have let the contract to WATSON & SPICER, Colorado Springs, Colo., for the construction of the municipal sewer system at $26,700.

LOS ANGELES, CAL.—Martin Wilagenovich, 332 Leroy St., was the only bidder at $5,000 for the construction of 4,000 ft. of vitrified pipe drain at Oxnard for the American Beet Sugar Co. Work consists of 2,200 ft. of 20-in. pipe, 500 ft. of 10-in. and 300 ft. of 12-in. vitrified pipe.

✚SACRAMENTO, CAL.—The Board of Trustees has awarded the contract for the construction of a sewer between Alleys B and C, from 23d St. to 25th St., to HENRY DEHN. M. J. Desmond is Clk.

SAN BERNARDINO, CAL.—The Atchison, Topeka & Santa Fe Ry. Co. has appropriated $15,000 for the construction of a sewer from its yards to Lytle Creek.

✚LETHBRIDGE, ALTA.—The city has awarded a contract to the LETHBRIDGE IRON WORKS CO. for supplying manhole covers at $3.20 per cwt., delivered anywhere in Lethbridge. The Canadian Iron Corporation bid $3.10 f. o. b. Lethbridge.

GARBAGE DISPOSAL.

(✚ Denotes a contract awarded.)

HOLYOKE, MASS.—Bids have been received as follows for garbage disposal: E. E. Proulx, $4,800; James F. [illegible]ly, $3,100; Michael Fitzgerald, $6,600; [illegible]aulieu, Jr., $3,120; John N. Miller of South Hadley Falls, Mass., $3,300.

BUFFALO, N. Y.—Bids will be received by the Department of Public Works until 11 a. m., March 25, for the supply and erection of a 40-ton, 3-grate, refuse destructor, with accessories, at the proposed utilization plant on the old Hamburg Canal site, at Hamburg and Scott Sts. Francis G. Ward is Comr.

NEW YORK, N. Y.—Bids will be received until 2.30 p. m., March 23, by William Williams, Comr. of Immigration, Ellis Island, New York Harbor, for all labor and materials required for the construction of a garbage crematory and dock at the U. S. Immigration Station, Ellis Island.

CARNEGIE, PA.—Bids will be received until March 24 by the Borough Clerk for the collection, hauling, removal and disposal of garbage for a period of one year from May 1, 1911.

MC KEES ROCKS, PA.—Bids will be received by the Borough Secretary until 8 p. m., March 27, for the erection complete of a garbage disposal plant of 2[illegible] tons capacity in ten hours. This is a change of date from March 13.

COLUMBUS, OHIO.—Bids will be received until noon, March 30, at the office of H. S. Holton, Dir. Pub. Ser., for the labor and material necessary for the erection of machinery equipment for the extraction of grease from garbage tankage produced by the garbage reduction plant.

SEATTLE, WASH.—The city has taken out a building permit for the erection of an incineration plant to cost $35,000 at 1614 Ninth Ave. South. R. H. Thomson is City Engr.

STREETS AND ROADS.

(*Denotes that this work is advertised in Engineering News.)

BROOKLINE, MASS.—Bids will be received until March 27 by the Board of Selectmen, Edward A. McEttrick, Secy., for repairing and constructing sidewalks.

HARTFORD, CONN.—Plans are being prepared by E. C. Welden, Division Engr., for the following state road work: Town of Somers, 10,000 lin. ft. survey on the main highway to Ellington, and 12,700 lin. ft. survey on Somers St.; town of Ellington, 20,000 lin. ft. survey on Ellington Turnpike; town of Coventry, 21,000 lin. ft. survey from south Coventry to Coventry.

NEW BRITAIN, CONN.—Appropriations for street work during next season have been authorized as follows: Permanent pavements, $7,000; crosswalks, $500; grading, $4,475; grading Sheppards' hill, $10,000; new macadam work, $24,000; macadam repairs, $7,000; catchbasins, $2,000; state highway work, $3,000.

WATERBURY, CONN.—Bids for the construction of 1½ miles of improved highways in the town of Morris, on the west side of the new Morris Reservoir, will be received by the Board of Public Works until 8 p. m. April 4. Specifications, contract and proposal blanks may be obtained of R. A. Cairns, City Engr.

✚*ALBANY, N. Y.—Bids for the improvement of public highways by State aid were received on March 20 by the State Commission of Highways as follows: Road No. 790, Cohoes City Line-Boghts Corner, Albany County, 2.11 miles, Thomas H. Carr, Troy, N. Y., $24,200 for Residuum, $25,200 for Bermudez and $25,200 for Trinidad; Grattan Construction Co., Cohoes, N. Y., $22,990, $23,750 and $23,460; Fred. E. Ellis, Melrose, Mass., $25,078, $26,618 and $26,158; Thos. Meehan & Sons, Philadelphia, Pa., $23,911, $25,531 and $25,171; Kennedy Construction Co., Albany, N. Y., $27,873, $29,946 and $28,967; Ryder & Sanders Construction Co., Troy, N. Y., $21,948, $23,388 and $23,028; John B. Dower, Ballston Spa, $26,670, $28,000 and $27,750.

Road No. 879, Shakers-Watervliet, Albany County, 6.40 miles, Thomas F. Shaughnessy & Co., Watervliet, N. Y., $82,000 for Residuum, $89,000 for Bermudez and $89,000 for Trinidad; John W. Flinn, Waterford, N. Y., $77,077, $80,110 and $80,200; Thomas Meehan & Sons, Philadelphia, Pa., $78,984, $80,186 and $75,585; JOHN E. CONSALUS (awarded contract on Trinidad), Albany, N. Y., $74,640, $77,840 and $76,600.

Road No. 858, Whitneys Point-Upper Lisle, Broome County, 4.27 miles, T. H. GILL & CO. (awarded contract), Boston, Mass., $46,316; Thomas Meehan & Sons, Philadelphia, Pa., $47,713; Spellman, Oliver Co., Chateaugay, N. Y., $54,950; Patrick D. Connelly, Ithaca, N. Y., $48,786; Joseph McCormick, Providence, R. I., $51,696; E. D. Baker, Binghamton, N. Y., $48,550.

Road No. 695, Otto-Cattaraugus, Cattaraugus County, 1.21 miles, Miller & Nickenburg, Buffalo, N. Y., $13,751; James Stewart & Co., New York City, $14,691 local stone and granite; James Stewart & Co., New York City, $11.915, limestone and local stone; George S. Van Wickle, New York City, $15,401. No contract awarded; exceeds appropriation.

Road No. 697, Otto-E. Otto, Section 2, Cattaraugus County, 2.27 miles, Miller & Knickenberg, Buffalo, N. Y., $29,444; James Stewart & Co., New York City, $26,154, local stone and granite, and $28,755, limestone and local stone; George S. Van Wickle, New York City, $28,265. No contract awarded; exceeds appropriation.

Road No. 687, Fair Haven-Sterling-Martville, Cayuga County, 5.30 miles, James Anderson, Albany, $65,610 for Residuum, $66,905 for Bermudez, and $66,185 for Trinidad; Folk & Menzies, Buffalo, $62,501, $63,379 and $64,659; Central City Paving Co., Syracuse, $66,28[illegible], $69,160 and $69,520; Dale Engineering Co., Utica, N. Y., $66,900, $70,000 and $70,000; Cunningham & Woodard Co., Hudson Falls, N. Y., $73,416, $76,553 and $75,760; MOSIER & SUMMERS (awarded contract on Residuum), Buffalo, $62,000, $65,000 and $64,500; Thomas Grady & Co., Rochester, $63,786, $67,383 and $66,664; Brayer Bros., Auburn, N. Y., $66,848, $70,445 and $[illegible]726; Monroe Roads Co., Pittsford, N. Y., $66,905, $69,783 and $69,063; Paddock & Williams, Memphis, N. Y., $66,500, $70,100 and $70,100.

Road No. 873, Brockton-Stockton, Chautauqua County, 2.93 miles, MILLER & KNICKENBURG (awarded contract), Buffalo, $30,525; Fred. J. Mumm, Buffalo, $30,974; Frank L. Cohen, Buffalo, $30,900; Hurley & Lyne, Fredonia, N. Y., $32,650; Edward T. Beck, Warren, Pa., $36,316.

Road No. 666, Plymouth-Kirk, Chenango County, 4.90 miles, Spellman-Oliver Co., Chateaugay, $57,859 for Residuum, $60,469 for Bermudez, $60,469 for Trinidad; Joseph H. Conners, Fulton, $58,350, $61,000 and $60,000; E. D. BAKER (awarded contract for Residuum), Binghamton, N. Y., $53,548, $55,836 and $54,980; Newport Construction Co., Newport, N. Y., $55,684, $58,004 and $57,424; James Stewart & Co., New York City, $58,500, $60,000 and $60,000.

Road No. 777, Plattsburg-Cadyville, Clinton Co., 4.33 miles, Brown & Lowe, Schenectady, $42,400 for Residuum, $45,080 for Bermudez, $44,410 for Trinidad; Sherrill Hardware & Plumbing Co., Hudson Falls, $40,618, $43,299 and $43,232; SPELLMAN-OLIVER CO. (awarded contract on Residuum) Chateaugay, $39,970, $42,985 and $42,985; Peter F. Connelly Co., Jamaica Plains, Boston, Mass., $40,780, $43,460 and $43,460; Buckley Construction Co., Plattsburg, N. Y., $44,000, $47,000 and $46,000; John B. Dower, Ballston Spa, N. Y., $43,250, $45,730 and $45,400.

Road No. 763, Hollowville-Craryville, Columbia County, 7.14 miles, Herlihy Construction Co., Glens Falls, $108,900 for Residuum, $116,000 for Bermudez and $115,000 for Trinidad; D. Martrino & Muso, Scranton, Pa., $68,980, $72,180 and $72,065; Joseph Walker, New Paltz, N. Y., $120,167, $123,687 and $122,807; Thomas Meehan & Sons, Philadelphia, Pa., $124,301, $127,821 and $126,941; James Sewart & Co., New York City, $117,000, $120,520 and $120,520; James E. Martin, Poughkeepsie, $111,994, $106,800 and $15,800; General Construction Co., Bridgeport, Conn., $103,490, $106,490 and $106,000; DeGraff & Hogeboom, Kingston, $104,436, $108,500 and $108,500. Contract held over.

Road No. 5072, Livingston-Hudson, Part 1, Columbia County, 3.62 miles, Thomas Meehan & Sons, Philadelphia, $44,121 for Residuum, $46,791 for Bermudez and $46,257 for Trinidad; James E. Martin, Poughkeepsie, $44,000, $46,000 and $45,500; Joseph Walker, New Paltz, $49,083 and $51,219; CATSKILL SUPPLY CO. (awarded contract), Catskill, $41,990, $44,250 and $44,250.

Road No. 5073, Livingston-Hudson, Part 2, Columbia County, 5.10 miles, Thomas Meeehan & Sons, Philadelphia, $70,236 for Residuum, $73,986 for Bermudez and $73,236 for Trinidad; Catskill Supply Co., Catskill, $65,990, $68,990 and $68,990; James Stewart & Co., New York City, $68,400, $71,400 and $71,000; James E. Martin, Poughkeepsie, $69,000, $72,000 and $71,250; DEGRAFF & HOGEBOOM (awarded contract), Kingston, N. Y., $66,700, $69,700 and $69,700.

Road No. 5074, Schodack Centre-Valatie, Part 4, Columbia Co., 4.30 miles, Thomas Meehan & Sons, Philadelphia, $53,233 for Residuum, $55,953 for Bermudez and $55,273 for Trinidad; Lane Construction Co., Meriden, Conn., $53,000, $55,720 and $55,000; Olin S. Benedict, Pittsfield, Mass., $61,250, $62,824 and $62,220; DiMartino & Musso, Scranton, Pa., $53,153, $56,453 and $56,300; Dorpian City Construction Co., Schenectady, $54,089, $56,754 and $56,088; THOMAS SHAUGHNESSY & CO. (awarded contract on Residuum), Albany, $48,900, $54,000 and $54,000.

Road No. 712, Amenia-Sharon Station, Dutchess County, 2.29 miles: E. W. Peck, Stratford, Conn., 20,861; LANE CONSTRUCTION CO. (awarded contract), Meriden, Conn., $20,649; DeGraff & Hogeboom, Kingston, N. Y., $21,847; Samuel Beskin, Fishkill-on-Hudson, $20,938; James E. Martin, Poughkeepsie, $22,874; Harper, Jovah & Kehoe, Newburg, $23,900; Greenfield Construction Co., Brooklyn, N. Y., $24,300.

Road No. 884, Malone-Fort Covington, Part 1, Franklin County, 3.58 miles: Spellman-Oliver Co., Chateaugay, $47,870 for Residuum, $50,024 for Bermudez, and $50,042 for Trididad; ST. REGIS CONSTRUCTION CO. (awarded contract on Residuum), Albany, $42,222, $44,153, and $43,670.

Road No. 885, Moire-South Bombay, Franklin County, 8.58 miles: JAMES ANDERSON (awarded contract on Residuum), Albany, $84,429 for Residuum, $89,163 for Bermudez, and $87,980 for Trinidad; A. J. Rockwood, Rochester, $87,205, $92,000, and $92,000; Burns Bros. & Haley, Watertown, $86,456, $91,000, and $91,500.

Road No. 5076, Malone-Moira, Franklin County, 5.22 miles: Buckley Construction Co. Plattsburg, $63,000 for Residuum, $67,000 for Bermudez, and $66,000 for Trinidad; JAMES ANDERSON (awarded contract on Residuum), Albany, $59,579, $62,809, and $62,001; A. J. Rockwood, Rochester, $61,000, $65,000, and $65,000; Spellman-Oliver Co., Chateaugay, $75,245, $78,878, and $78,878.

Road No. 625, Theresa-Antwerp, Part 2, Jefferson County, 5.37 miles: Buckley Construction Co., Plattsburg, N. Y., $59,000 for Residuum, $62,000 for Bermudez, and $61,000 for Trinidad; DALE ENGINEERING CO. (awarded contract on Residuum), Utica, $54,420, $58,360, and $58,360; Semper Bros., Watertown, $56,000, $59,040, and $58,000; Burns Bros. & Haley, Watertown, $59,907, $58,783, and $58,783; James Anderson, Albany, $56,611, $59,523, and $58,795.

Road No. 626, Burrs Mills.-S. Champion, Jefferson County, 4.56 miles: James Anderson, Albany, $50,533 for Residuum, $53,13 for Bermudez, and $52,393 for Trinidad; Burns Bros. & Haley, Watertown, $50,815, $53,357, and $53,357; SEMPER BROS. (awarded contract on Residuum), Watertown, $49,917, $53,017, and $52,397.

Road No. 659, Brunswick Center-Lansing, Rensselaer County 5.07 miles: Thomas Meehan & Sons, Philadelphia $61,520 for Residuum, $62,358 for Bermudez, and $61,939 for Trinidad; T. F. Shaughnessy & Co., Albany, N. Y., $61,800, $67,000, and $67,000; Thomas H. Karr, Troy, N. Y., $62,000, $62,000, and $62,000; JOHN W. FLINN (awarded contract on Residuum), Waterford, $55,488, $59,400, and $59,680; Joseph Walker, New Paltz, N. Y., $60,280.

Road No. 679, W. Stephentown-Stephentown Center, Rensselaer County, 4.14 miles: J. W. Whalen, Whitehall, $36,574; Fred E. Ellis, Melrose, Mass., $51,306; Olin T. Benedict, Pittsfield, Mass., $59,379; Cunningham-Woodard Co., Hudson Falls, $45,400; Richard Hopkins, Troy, $44,832; S. B. VanWagonen, Rondout, $46,000; Charles E. Horne, Millburg, Mass., $59,800; Amos D. Bridges' Sons, Inc., Hazardville, Conn., $53,983; Edward J. Rourke, Arlington, Mass., $54,043; Joseph McCormick, East Providence, R. I., $49,830. Contract held over.

Road No. 680, Stephenson Center, Massachusetts, Rensselaer County, 3.92 miles: John W. Whalen, Whitehall, $35,588; Cunningham-Woodard Co., Hudson Falls, $39,445; The Lane Construction Co., Meriden, Conn., $35,640; Ryder & Sanders Construction Co., Troy, N. Y., $33,491; S. B. VanWagonen, Rondout, N. Y., $36,000; Amos D. Bridges' Sons, Inc., Hazardville, Conn., $41,998; Joseph McCormick, East Providence, R. I., $39,970; Crowe & Walsh, Pittsfield, Mass., $33,790; Fred E. Ellis, Melrose, Mass., $41,325; Olin T. Benedict, Pittsfield, Mass., $46,072. Contract held over.

Road No. 5084, Schodack Center-Valatie, Part 3, Rensselaer County, 2.90 miles: Lane Construction Co., Meriden, Conn, $40,950 for Residuum, $42,750 for Bermudez, and $42,300 for Trinidad; Thomas Meehan & Son, Philadelphia, $39,581, $41,606, and $41,156; Olin T. Benedict, Pittsfield, Mass., $46,000, $47,174, and $46,800; Dorpian City Construction Co., Schenectady, $39,892, $41,656, and $41,215; Di Matrino & Musso, Scranton, Pa., $32,898, $34,620, and $34,500; Thomas F. Shaughenssy Co., Albany, $37,800, $42,000, and $42,000; Wiltsie & Rigley, Rensselaer, $39,961, $41,851, and $41,379. Contract held over.

Road 5072, Extension Livingston-Hudson Parts 1 and 2, Columbia County, 8.70 miles: Frank J. Gallagher, Brooklyn, N. Y., $112,000 for Residuum, $117,000 for Bermudez, and $115,852 for Trinidad; Joseph Walker, New Paltz, $105,592, $110,728, and $109,544; Brown & Lowe Co., Schenectady, $112,668, $117,804, and $116,532; Catskill Supply Co., Catskill, $106,480, $111,740, and $111,740; Herlihy Contracting Co., Glens Falls, $105,312, $121,000, and $119,500; James E. Martin, Poughkeepsie, $113,000, $118,000, and $110,800; General Construction Co., Bridgeport, Conn., $104,859, $109,495, and $108,995.

Road 4074, Extension Schodack Center-Valatie, Parts 3 and 4, Columbia, Renseelaer, 7.20 miles: Frank J. Gallagher, Brooklyn, N. Y., $94,550 for Residuum, $99,070 for Bermudez, and $97,940 for Trinidad; Brown & Lowe Co., Schenectady, $94,999, $99,519, and $98,389; Herlihy Contracting Co., Glens Falls, $105,000, $110,000, and $109,000; Di Martino & Musso, Scranton, Pa., $83,251, $88,274, and $88,000; Lane Construction Co., Meriden, Conn., $91,000, $95,500, and $94,400. Contract held over.

ELMIRA, N. Y.—We are officially advised that paving and sewerage to cost $25,000 is contemplated. O. H. Gardner is City Clk., and T. A. Brown is Supt. Paving.

•JOHNSTOWN, N. Y.—Bids will be received until 7.30 p. m., April 17, by Grover E. Yerdon, City Clk., for bituminous macadam paving and stone curbing on East and West State Sts., for details ese advertisement in this issue.

MANHASSET, N. Y.—Tentative plans calling for an expenditure of $103,455, have been prepared for highway improvements. Address the Town Clerk.

NEW YORK, N. Y.—Bids will be received by the Department of Parks until March 25 for 5,000 cu. yds. of Hudson River road gravel for parks in the Boro. of the Bronx.

✚NEW YORK, N. Y.—We are officially advised that contracts for regulating and repaving with sheet asphalt pavement, have been awarded as follows; to the SICILIAN ASPHALT PAVING CO., 41 Park Row, New York, for improving 29th St., from Lexington Ave. to Fourth Ave., at $10,899; to W. J. FITZGERALD, 457 West 45th St., New York, for improving Eleventh Ave., from 42d to 62d St., at $93,264; East 20th St., from the East River to First Ave., at $18,823; and a portion of 34th St., at $24,519.

✚NEW YORK, N. Y.—The contract for curbing and laying sidewalks on Hunters' Point Ave., from Jackson Ave. to Van Dam St., Boro of Queens, has been awarded to the M. DI MENNA CONSTRUCTION CO., 2412 Hughes Ave., New York, at $11,375. The other bidders were: Peace Bros., $12,450; Green Contracting Co., $12,450; W. H. Robertson, $12,800; Astoria Contracting Co., $12,900; Frazer Co., $12,310; Degnon Realty & Terminal Improvement Co., $14,415; Henry J. Mullen, $11,948.

NEW YORK, N. Y.—Bids will be received by George McAneny, Pres. of Boro. of New York, until 2 p. m., April 3, for paving with asphalt blocks on concrete foundation, sheet asphalt paving and for regulating and repairing various streets and avenues. Specifications may be obtained of the office of Comr. of Public Wks.

•PORT JERVIS, N. Y.—Bids will be received by John F. Cleary, City Clk., until 8 p. m., April 3, for about 11,000 sq. yds. of brick paving. Specifications and further information may be obtained at the office of the City Clerk, City Hall, Port Jervis.

POUGHKEEPSIE, N. Y.—Bids will be received by the Board of Public Works until March 30 for laying vitrified brick pavement on concrete binder in Tulip St., from Pine to Union; Union St., from Tulip St. to Union Square; North Bridge St., from Main to Washington; Church St., from Grand St. to Union Square. Also concrete sidewalks in Mansion St., from Smith St. to Winnikee Ave.; North Water St., from Main St. to Fall Kill Bridge; Holmes St., from Hamilton to Academy; North St., from Garden to Clinton; Worrall Ave., from College Ave. to Main St.; Innis Ave., from Main St. to Maple St.

SYRACUSE, N. Y.—The Board of Contract and Supply will soon ask bids for repairing the city pavements. Frank M. Westcott is Supt. Paving.

WHITE PLAINS, N. Y.—The Board of Supervisors have approved plans for new roads in Westchester County to be built with state aid, as follows: 4.6 miles running through the towns of Lewisboro and Bedford, cost, $62,500; 1.8 miles in the town of Rye, cost, $24,700; 5.68 miles, the Cross River Road, running through the town of Lewisboro to the Connecticut state lines, cost, $81,000. The total expense will be shared by the state, county and towns.

✚WHITE PLAINS, N. Y.—A contract for constructing streets, laying sewer, gas and water mains, and building walks, curbs and gutters, on the property of Corey B. Fish, at Chatterton Parkway and Battle Ave., has been awarded to E. L. ERBECK, White Plains, at about $45,000.

The New York, New Haven & Hartford R. R., owner of the Westchester Street Ry., has decided to spend $8,000 or $10,000 repairing pavements between the tracks in the village of White Plains.

JERSEY CITY, N. J.—We are officially advised that the lowest bid received on March 16, for reconstructing a portion of the Hudson Boulevard, was submitted by William Baker, 137 South St., Jersey City. J. C. Sweeney is Clk. Boulevard Comn. Noted on March 16.

JERSEY CITY, N. J.—Bids will be received by the Board of Street and Water Commissioners until April 3 for improving North St., from Nelson to Tonnele Ave.

NEWARK, N. J.—Bids will be received by the Essex County Park Commission until 3.30 p. m., March 28, for grading Park Ave., according to plans on file with the engineer, 60 Clifton Ave., Newark. A. Church is Secy. Commn.

NEWARK, N. J.—Bids will be received by the Board of Street and Water Commissioners until 3.15 p. m., March 30, for paving the following streets: Ave. B from Emmet to Miller Sts., with granite, 2,350 sq. yds.; Kirk Alley from Lawrence to Ward Sts., granite, 650 sq. yds.; Hay Alley from Alling to Ward Sts., granite, 240 sq. yds.; Exchange Alley from Hay Alley to Mechanic St. granite, 200 sq. yds.; Alyea St. from Ferry to Hensler Sts., granite, 3,100 sq. yds.; Ardsley Court from Walnut St., south, brick, 300 sq. yds.; Coeyman St. from Summer to Mt. Prospect Aves., brick, 1,700 sq. yds.; 19th St. from Springfield Aye. to Clinton Ave., brick, 9,130 sq. yds.

INGRAM (Pittsburg post-office). PA.—Bids will be received by D. H. Harner, Boro. Clk., until 7.45 p. m., April 3, for grading, curbing and paving portions of Hodgson Ave. and Stanley St.

✚ELIZABETH CITY, N. C.—A contract for paving with Baltimore block several city streets has been awarded to E. J. MCGUIRE, Norfolk, at $1.425 per sq. yd.

CHARLESTON, S. C.—Bids will be received by the Board of Public Works until April 4, for street improvement and sidewalk construction to cost $27,000.

DUBLIN, GA.—Bids will be received by A. P. Hilton, City Clk., until noon, April 18, for paving approximately 600 sq. yds. of street with vitrified brick, according to plans and specifications prepared by M. J. Guyten, City Engr.

ASHTABULA, OHIO.—Bids will be received by C. F. Brotherton, Dir. Pub. Serv., until noon, March 29, for furnishing the labor and material for the improvement of West Prospect St. from West St. to the Saybrook line. The work includes approximately 6,070 cu. yds. of excavation, 14,150 sq. yds. of shale block pavement, 8,875 lin. ft. of cement curb, 3,800 lin. ft. of storm sewer, 42 catch basins, 24 manholes and 18,000 sq. ft. of sidewalk.

BOWLING GREEN, OHIO.—Bids will be received by the Commissioners of Wood County until March 31 for grading and macadamizing Section 2 of the M. Rush Road between Liberty and Portage Townships, a distance of six miles.

BOWLING GREEN, OHIO.—Bids will be received at the office of the Auditor of Wood County until April 4, for the crushed stone necessary for the repair of 25 roads in Wood County. The amount of stone in each instance varies from 1,200 to 9,000 cu. yds.

BUCYRUS, OHIO.—Bids will be received by the Road Commissioners of Road District No. 1, Crawford County, until noon, March 25, for grading and macadamizing the following roads: Bethel Road, one mile in length in Holmes Township; Boyer Road, one mile in length in Whetstone Township; Harvey Road, one-half mile in length in Bucyrus Township, and the Arbuckle Road, one-half mile in length in Bucyrus Township.

CLEVELAND, OHIO.—Bids will be received at the office of the Secretary to the Director of Public Service, Room 104, City Hall, until noon, March 29, for grading, draining, curbing, and paving with paving brick, West 17th St., between Lake and Madison Aves. Ira O. Hoffman is Secy.

CLEVELAND, OHIO.—Bids will be received at the office of the Board of Commissioners of Cuyahoga County until 11 a. m., April 15, for grading, draining and improving Wooster Pike Road No. 3 from the end of the present brick road to the Medina County Line in Strongsville Township, in accordance with the form of contract and specifications to be furnished by Frank R. Lander, County Surv. John F. Goldenbogen is Clk. Comrs.

CLYDE, OHIO.—We are officially advised that bids will be asked in about six weeks for about 1¼ miles of paving. H. M. Bacon is City Clk., and A. E. Metzgar is Supt. Paving.

COLUMBUS, OHIO.—Bids will be received by James C. Wonders, State Highway Comr., Columbus, until noon, March 24, for grading and macadamizing 2.1 miles of road.

MIDDLETOWN, OHIO.—Bids will be received by the Director of Public Service until noon, April 1, for furnishing the necessary materials and labor for cutting down Yankee Road and for constructing cement sidewalks, curbs and gutters on the various streets. John Kunz is Clk.

NEW PHILADELPHIA, OHIO.—Bids will be received by the Commissioners of Tuscarawas County, until 1 p. m., April 3, for paving a part of the Port Washington River Road with brick, according to plans and estimates on file in the office of W. C. Schott, County Audr.

PERRYSBURG, OHIO.—The Council has voted to pave Second St., from Hickory to Pine St., seven blocks, with brick, at an estimated cost of $48,000.

PORTSMOUTH, OHIO.—Bids will be received by the Commissioners of Scioto County, until April 17, for grading, ditching and culverting the Eichenlauben Road, for a distance of 4,150 ft.

TOLEDO, OHIO.—Bids will be received by Charles J. Sanzenbacher, Audr., Lucas County, until 10 a. m., March 31, for repairing Stone Road No. 33.

BEDFORD, IND.—Bids will be received until 1 p. m., April 4, by the Commissioners of Lawrence County for the construction of two macadamized roads, Road No. 1 in Bono and Marion Townships, length 6,729 ft., and Road No. 2 in Mitchel and Lawrence Townships, length 5,280 ft. Ezra W. Edwards is County Audr.

✚BRAZIL, IND.—We are officially advised that the contract for constructing 7,655 ft. of gravel road in Clay County has been awarded to EDGAR J. SCHAUWECKER, at $9,394. The other bidders were: James McGuire & Son, $10,697; Austin Shattuck, $11,200. E. A. Staggs is County Audr. Noted on Feb. 23.

BROOKVILLE, IND.—Bids will be received until 1 p. m., April 7, by Commissioners of Franklin County for the construction of four gravel roads, two in Ray Township, one on the line dividing Bath and Springfield Townships, and one on the line dividing Springfield, Fairfield and Brookville Townships. C. A. Miller is County Audr.

ELKHART, IND.—Bids will be received by the Board of Public Works until March 27 for the construction of cement sidewalks on Willowdale Ave., Edwardsburg Ave., Kran St., La Salle Ave., Cherry St. and McKinley Ave. Ellis M. Chester is Pres.

EVANSVILLE, IND.—Bids will be received by S. A. Bartholme, Clk. Dept. Pub. Wks., until 10 p. m., March 25, for furnishing broken stone and screenings during the year.

GOSHEN, IND.—Bids will be received by the City Clerk until April 3, for paving North Main St.

INDIANAPOLIS, IND.—Bids will be received by the Commisioners of Hamilton County until March 29 for grading, draining and graveling (or macadamizing) the following highways: Gravel Road No. 144, Jackson Township, length 13,100 ft., estimated cost $9,223; gravel Road No. 145, in Adams Township, length 10,410 ft., estimated cost $5,281; gravel Road No. 146, in Jackson Township, length 11,770 ft., estimated cost $6,491; gravel Road No. 147, in Jackson Township, length 11,153 ft., estimated cost $5,583; gravel Road No. 149, Jackson Township, length 15,228 ft., estimated cost $9,965; macadam Road No. 149, in Jackson Township, length 3,789 ft., estimated cost $5,902.

KOKOMO, IND.—Bids will be received until 2 p. m., April 4, by Commissioners of Howard County for the construction of three gravel roads in Monroe Township. A. B. Easterling is County Audr.

MUNCIE, IND.—Bids will be received until 10 a. m., April 5, by Commissioners of Delaware County for the construction of a gravel road in Center Township. F. M. Williams is County Audr.

✚PORTLAND, IND.—The contract for constructing a gravel road in Jay and Randolph Counties, has been awarded to DANIEL WALLACE, Ridgeville, Ind., at $17,749.

✚RICHMOND, IND.—We are officially advised that the contract for paving North E St. with brick has been awarded to L. P. MEREDITH, at $21,851. Fred. R. Charles is City Engr.

ROCKVILLE, IND.—Bids will be received until 1:30 p. m., April 6, by the Commissioners of Parke County for the construction of a gravel road in Reserve Township. James E. Elder is County Audr.

✚SEYMOUR, IND.—A contract for constructing a gravel road in Vernon Township has been awarded to SAM SMALL, Seymour, at $7,995.

✚WABASH, IND.—Contracts for the construction of gravel roads have been awarded as follows: KILTY & HIEK, North Manchester, Ind., $10,675; FRANK MURPHY, Servia, Ind., $8,240; CONOVER & TABER, Valparaiso, Ind., $19,480.

WABASH, IND.—Bids will be received until 1 p. m., April 7, by the Commissioners of Wabash County for the construction of a gravel road in Chester Township. J. P. Noftzger is County Audr.

WINAMAC, IND.—Bids will be received by the Board of Commissioners of Pulaski County until April 4 for the improvement of various highways by grading, draining and graveling, according to the specifications, plans and profiles now on file in the office of W. E. Munchenburg, Audr., Pulaski County.

✚**DETROIT, MICH.**—Contracts for paving with cedar blocks on concrete foundation, with Amherst curbing, have been awarded as follows: Chalmers Ave., from Freund to Jefferson Ave., to T. E. CURRIE, 20 McGraw Bldg., at $7,680; Hazel St., from National to Wabash Ave., to J. A. MERCIER, 211 Hammond Bldg., at $8,933; Montclair Ave., from Charlevoix Ave. ,to city limits, to T. E. CURRIE, at $7,142; Spruce St., from Twelfth St. to Wabash Ave., to J. ORATH, 34 McGraw Bldg., at $4,848; Willis Ave., from McDougal to Mt. Elliott Ave., to T. E. CURRIE, at $15,855.

DETROIT, MICH.—Plans have been prepared and bids will soon be asked for paving, with cedar block on concrete base, the following streets: Fort St., estimated cost $17,500; Ellery St., estimated cost $24,960; Beaufait Ave., estimated cost $17,077; Beaufait Ave, estimated cost $7,742.

✚**MUSKEGON, MICH.**—We are officially advised that the contract for furnishing and delivering 14,200 cu. yds. of road building materials, was awarded on March 17 to the LAKE SHORE STONE CO., Milwaukee, Wis., at $18,319. Noted on March 9.

BURLINGTON, WIS.—Bids will be received by P. J. Hurtgen, Chn. Bd. Pub. Wks., until 2 p. m., March 24, for paving with brick and cement, grading and guttering various streets.

STEVENS POINT, WIS.—We are officially advised that bids will be asked some time this spring for several miles of macadam, estimated to cost $25,000. G. Carley is City Engr.

CRESCO, IOWA.—Bids will be received by John E. Peck, City Clk., until 8 p. m., April 10, for constructing 5,500 lin. ft' of cement concrete curbing, and 11,500 sq. yds. of cement concrete paving.

SIOUX CITY, IOWA.—Bids will be received by E. O. Wesley, Supt. Sts., until 9 a. m., March 25, for paving a portion of First St. with brick block.

CROOKSTON, MINN.—Bids will be received until April 4 for constructing 21,372 sq. yds. of Westminster asphalt macadam, estimated at $50,000. J. E. Carroll is City Engr.

McPHERSON, KAN.—Bids will be received until March 29 for approximately 19,000 sq. yds. of paving, and 6,100 lin. ft. of curb and gutter. The specifications include asphalt, asphaltic concrete, bitulithic, brick, and concrete paving. H. A. Rowland is City Engr.

VAN BUREN, ARK.—A movement is on foot to build a macadamized road from Van Buren to Mulberry, a distance of 20 miles, through Kibler, Alma and Dyer. It is believed the road can be built for $2,500 per mile, or a total of $50,000. F. D. Scott is interested.

GRAFTON, N. DAK.—Bids will be received by J. H. Johnson, City Audr, until 6 p. m., April 3, for constructing sidewalks and crosswalks during the year.

✚**COLUMBIA, MO.**—We are officially advised that the contract for constructing 11,750 sq. yds. of pavement has been awarded to J. A. STEWART, at $24,889. Noted on Feb. 23.

✚**KANSAS CITY, MO.**—The contract for the construction of 1½ miles of concrete paving through the Westmoreland district at 74th St. and Broadway has been awarded to WEAVER BROS., Kansas City, at approximately $25,000.

SAN ANTONIO, TEX.—We are officially advised that 120,000 sq. yds. of asphalt paving is contemplated, at an estimated cost of $120,000. The work will be done by the city. F. M. Giraud is City Engr., and Fred Feries is City Clk.

HUGO, OKLA.—The City Council has passed resolutions ordering nearly two miles of streets paved, and bids will be advertised for at once. The paving to be done calls for road asphalt on macadam base. Work will begin by the middle of April.

LAWTON, OKLA.—Bids will be received by Z. M. Seifers, City Engr., until April 10, for paving approximately five miles of road.

***FORT DOUGLAS, UTAH.**—Bids will be received by F. W. Rowell, A. Q. M., Constructing Quartermaster, until 10 a. m., April 11, for labor and materials required in the construction of roads, catchbasins, concrete sidewalks, grading and drains complete, at Fort Douglas. Plans, specifications, blank proposals, etc., may be seen in the office of the Quartermaster.

CENTRALIA, WASH.—Bids will be received by W. H. Hodge, City Clk., until April 4, for hard-surface paving and grading estimated at $100,000.

SPOKANE, WASH.—Bids will be received by the Commissioners of Spokane County, until March 29, for paving about 15 miles of road with asphalt macadam.

✚**SPOKANE, WASH.**—Contracts for paving have been awarded to JAMES H. FIFE, as follows: Seventh Ave., with granitoid, $12,200; Bernard St., with granitoid, $37,500; Wall St., with asphalt macadam, $57,000; Boone Ave., with granitoid, $11,744; Lincoln St., with granitoid, $16,500.

HERMOSA BEACH, CAL.—The City Trustees are preparing specifications for the construction of a 30-ft. boulevard for a distance of two miles along the beach. The roadway will be paved with asphalt. Estimated cost, $30,000.

MANUFACTURING PLANTS.

(✚ *Denotes a contract awarded.*)

MANCHESTER, N. H.—A plant of five shoe factories is to be built at South Manchester, at a cost of $1,500,000. About 500 will be employed. Herbert A. Trull is Gen Mgr. of W. H. McElwain Shoe Co., which plans the improvements.

FITCHBURG, MASS.—Estimates are being received for the construction of a mill for the Grant Yarn Co. The building will be 100 x 100 ft., three stories high, of brick, mill construction. F. P. Sheldon & Sons Co., 49 Westminster St., Providence, R. I., are the Engrs.

NORTH BILLERICA, MASS.—The Boston & Maine R. R. Co. plans to construct a $3,000,000 plant, composed of repair shops, employing 1,200 men, and occupying 530 acres. J. P. Snow, of Boston, is Ch. Engr., and Frank Barr, Gen. Mgr.

ANSONIA, CONN.—The Farrel Foundry & Machine Co. is planning an addition, 35 x 260 ft., to the heavy roll department. The building will be of brick with steel frame, built to carry two traveling cranes.

✚**BRIDGEPORT, CONN.**—The Caufield Rubber Co. has awarded the contract for a 2-story addition to its plant to the TORRINGTON BUILDING CO. of Torrington, Conn. The plans were drawn by the Fletcher Engineerng Co., of this city.

✚**FARMINGTON, CONN.**—The BERLIN CONSTRUCTION CO., of Berlin, Conn., has been awarded the contract for the steel and corrugated iron work for the plant of the New England Brick Co. The building will be 40 x 200 ft., and 40 x 60 ft. F. L. Sage, 252 Asylum St., Hartford, is Mgr.

NORWICH, CONN.—Plans have been completed by the United States Finishing Co., by which the plant at Norwich will be brought thoroughly up-to-date. These plans contemplate the outlay of approximately $500,000. The improvements will be made in sections without interfering with the operation of the plant.

SOUTHINGTON, CONN.—Plans are being prepared by Anton Burchard, Arch., of Cleveland, Ohio, for the proposed plant which the Peck, Stowe & Wilcox Co. will erect here. The group of buildings will include a 4-story main factory, a 2-story office building, warehouse, shipping building, foundry and a power-house from which electric power will be distributed to the other buildings. All the buildings will be of brick and stone construction.

✚**STAMFORD, CONN.**—The SHEA & SULLIVAN CO. have been awarded the contract for the erection of a cold storage building, 30 x 80 ft., on Main St., for the Diamond Ice Co. It will be of brick and steel fireproof construction, with terra cotta floors and cost about $5,000.

✚**WILLIMANTIC, CONN.**—The Willimantic Industrial Co. has awarded the contract for the construction of the proposed mill to the B. F. SMITH CONSTRUCTION CO., of Pawtucket, R. I., for $49,727. Other bidders were: Peck, McWilliams & Co., Norwich, Conn., $49,750; Hartwell & Kingston, Providence, $51,373; E. K. Watson, Warren, R. I., $51,636; J. W. Bishop Co., Providence, $52,436; H. Wales Lines Co., Meriden, Conn., $53,540; Lewis A. Miller, Meriden, $54,319; Caspar Ranger, Holyoke, Mass., $55,837; Latham & Crane, Willimantic, $56,000; C. J. Larned Co., Providence, $57,900; C. M. Williams, Norwich, Conn., $59,970; E. H. Brindamour, Willimantic, $66,653.

FLUSHING (L. I.), N. Y.—The Third Ward Hygeia Ice Co., of Flushing, has had plans prepared for the erection of an extensive addition to the plant on Myrtle Ave. The plant, which was erected four years ago, has a capacity of 60 tons. It is the intention of the company to increase that 50%. William Connair is Pres. of the organization; Alderman Frederick Snell, Vice-Pres., and A. C. Sluiter, Secy. and Acting Treas.

✚**NEW YORK, N. Y.**—We are officially advised that the TURNER CONSTRUCTION CO., 11 Broadway, has been awarded the general contract by the Bush Terminal Co. for the construction of model factories Nos. 7 and 8; the buildings to be 700 x 75 ft. each, six stories and basement in height and joined together by an L 100 x 200 ft. long, also six stories and basement in height. William Higginson, 13 Park Row, is Arch. The work is to be undertaken at once.

NIAGARA FALLS, N. Y.—J. Spaulding Sons & Co., are planning to locate a paper plant in this city to overlook the Falls. The company is at present located at Rochester, N. H. It plans to spend about $1,000,000 on its proposed plant and equipment.

✚**ROME, N. Y.**—The Rome Brass & Copper Co. will erect a $100,000 tube mill at East Rome and a $20,000 2-story concrete office building at Dominick and Bouck Sts., Rome. The contract for the office building has been awarded to E. K. FENNO, of Syracuse. The contract for the steel work on the mill has been awarded to the MC-CLINTIC-MARSHALL CO. of Philadelphia, and MR. FENNO will receive the rest of the contract. The mill will be 115 x 450 ft. and the office building 60 x 100 ft. Both are to be completed this year.

✚**JERSEY CITY, N. J.**—Official advices are to the effect that Swift & Co. have decided to further enlarge the plant at Henderson and Ninth Sts., by the construction of a 5-story fireproof brick building in the rear of the new $200,000 building to be completed May 1, to take the place of its old power house. This addition to its plant, which was not contemplated when the $200,000 building was contracted for, will cost $27,000. Work will begin on it so soon as the plans can be drawn for it. The MAC DONALD ENGINEERING CO., Ninth and Henderson Sts., which has the contract for the $200,000 fireproof building, will also construct this addition. Swift & Co. will, as soon as the main building is completed, remove to it the market now at Provost and Ninth Sts., it is stated.

FRANKFORD (Philadelphia post-office), PA.—Stearns & Caston, Stephen Girard Bldg., Philadelphia, are preparing plans for reconstructing the mill of Gordon Bros. & Co., at Orthodox and Pierce Sts., Frankfort.

LINWOOD, PA.—W. W. Lindsay & Co., with offices in the Harrison Bldg., Philadelphia, have purchased, through T. Woodward Trainer, of Chester, a tract of six acres in Linwood from Leon W. Syfrit, of Lower Chichester Township. It is the purpose of the purchasers to establish a plant for the building of structural iron work, for bridges. About 200 skilled mechanics will be employed, it is announced.

✚**PHILADELPHIA, PA.**—We are officially advised that the contract to erect a warehouse and coal storage yard for the Curtis Publishing Co. at the northwest corner of Washington Ave. and Eleventh St., has been awarded to the WELLS BROS. CO. OF NEW YORK, 366 Fifth Ave., New York. The warehouse will have a storage capacity for 20,000 rolls of paper and the coal yard will have a storage capacity for 10,000 tons. Frank C. Roberts and Co. are the Engrs. and Archs.

PHILADELPHIA, PA.—J. Richard Jackson, Perry Bldg., is estimating on plans for a 4-story factory, 33 x 83 ft., at the northeast corner of Sixteenth and Pearl Sts., for Kane & Co.

✚**PITTSBURG, PA.**—Advices are to the effect that the MC CLINTIC-MARSHALL CONSTRUCTION CO., Park Bldg., has been given the contract to erect a 1-story steel and brick manufacturing building on Fayette St., Second Ward, for the Pennsylvania Drop Forge Co. Cost, $29,000.

✚**READING, PA.**—The BEARD CONSTRUCTION CO., Colonial Trust Bldg., has been awarded the contract to build a 6-story addition to the plant of the Curtis & Jones Co., shoe manufacturers at Eighth and Oley Sts. The addition will be located south of the present building, will have a frontage of 128 ft., and will be 95 ft. high. Cost, $51,000.

ELKTON, MD.—A site has been chosen here by the National Fire Proofing Co., of Pittsburg, Pa., on which a plant will be erected for making fireproofing hollow tile. Work will soon be started. W. D. Henry is Pres.

NORFOLK, VA.—The Barber Asphalt Co. of Philadelphia, Pa., plans to establish an asphalt plant in this city, it is announced. Perry W. Ruth & Co. are the local agents.

PULASKI, VA.—The Huddle Smokeless Burner Corporation has been incorporated with $15,000 capital stock. The officers are: C. D. Huddle, Pres., of Draper, Va.; M. W. Stevens, Vice-Pres.; A. T. Eskridge, Secy.-Treas., both of Pulaski. The company will manufacture smokeless burners.

ROANOKE, VA.—The Consolidated Tramway Co., of which W. C. Lawson is Pres., Roanoke, will erect a shop building 54 x 200 ft. The company will be in the market for all machinery, comprising iron-working tolls, drills, punches, air compressors, lathes, pulleys, electric motors, key seaters, shears, forges, anvils, sheet steel car bodies, swinging cut-off saw, table rip saw, band saw, boring machine, etc. This company has been in operation three years handling the Lawson patent tramway and motor, equipment having heretofore been manufactured by contract, it is stated.

HUNTINGTON, W. VA.—Extensive improvements are planned to be made to the plant of the West Virginia Brewing Co., to include an addition to brew house, to cost $20,000. Fesenmeier Bros. and J. J. Kearney are officers of the company.

✚**HICKORY, N. C.**—The Carolina & Northwestern Ry. Co. has awarded the contract to the ROANOKE BRIDGE CO., of Roanoke, Va., to construct shops at Hickory, 20 x 60 ft., two 20 x 60 ft., and two 30 x 80 ft., with brick foundation. They will be frame structures with galvanized iron siding.

CHESTER, S. C.—An oil mill and ginnery is contemplated here by J. G. L. White, Giles J. Patterson and others. A site is now being sought. At a recent meeting a committee consisting of the following was appointed: T. H. White, J. G. L. White, M. H. Wachtel, J. M. Wise, S. D. Cross, John Frazer, T. J. Cunningham, M. E. White and C. C. McAliley.

AUGUSTA, GA.—The International Agricultural Corporation, 165 Broadway, New York, has purchased eight acres of land near here for the purpose of erecting a plant to manufacture 30,000 tons of acid phosphate yearly. This site is located on the Belt Line Railroad, and the purchase was made by Albert French, Vice-Pres. of the corporation. The main building will be 175 × 250 ft., and construction will be commenced as soon as tracks from the Belt Line Railroad are laid to the site. Direct tracks will eventually be laid from the Augusta Southern and the Central of Georgia Railroad to the plant, it is stated.

MOBILE, ALA.—Reports are to the effect that plans and specifications for the establishment of a $20,000 repair plant for dredges, barges, pile drivers and other heavy floating paraphernalia on Pinto Island, are being drawn up by the Chief of the United States Board of Engineers at Washington, and bids for the construction of the plant will be asked at an early date. Marine ways for hauling out barges, dredges and small vessels, and a pier 500 ft. long and 150 ft. wide will be constructed. Three sides of the pier will be used for vessels out of commision to tie up. The work will be under the direct supervision of the local board of United States Engineers. The city of Scranton, Miss., has donated to the United States a sufficient number of acres of waterfront land for the establishment of a similar plant at that place, tentative plans for the construction of which call for the outlay of about $10,000. This plant will be used mostly for vessels out of commission, but at the same time repair work will be done on a small scale.

CHATTANOOGA, TENN.—A plant to manufacture a device known as an airbrake indicator is contemplated here by O. A. Snyder, J. B. Jones, R. J. Yearwood, C. W. Wright and T. G. McConnell. A company is being organized with a capital of $50,000.

LOUISVILLE, KY.—Harry B. Driver, Pres. of the Elite Laundry, has purchased a site 60 x 200 ft. on the north side of Broadway, between Sixth and Seventh Sts., through Mueller & Martin, realty brokers, for $18,000, and will erect a laundry there in the near future.

MAYSVILLE, KY.—A flour and meal mill is to be erected here on a site 200 x 200 ft., by J. F. Gebhardt, of Augusta, Ga. It will have a daily capacity of 100 bbls. of flour and 250 bu. of meal. [illegible] C. Norris is also interested.

PINE HILL, KY.—The [illegible] Construction Co., of Kansas City, Mo., [illegible] purchased of Col. A. J. August, of Washington, D. C., 2,100 acres near Pine Hill, [illegible] will commence erecting at once a [illegible] cement plant with a capacity of 1,[illegible] a day, it is reported.

✚**AKRON, OHIO.**—The contract to build a paper plant here for the [illegible] Ohio Power Co. has been awarded [illegible] JAMES B. SOUTHARD & CO., cement contractors. Water for the plant will be [illegible] from the Cuyahoga River. About 40,[illegible] ft. of concrete work, including foundations [illegible] walls, floors, engine beds, roofs and [illegible] across the river. It will be 2,000 ft. [illegible] 53 ft. high, 40 ft. wide at the base [illegible] 20 ft. wide on top.

COLUMBUS, OHIO.—It is said that the Hanna Paint Mfg. Co., now located in East Long St., near Third St., has purchased from the Columbus Gas & Fuel Supply Co., 125 x 187½ ft. in West Long [illegible] at the corner of Water St., for the purpose of erecting a paint factory. The company has no railroad switch at its present location, but at the new site will have excellent switching facilities. The price paid is said to have been $25,000.

FINDLAY, OHIO.—A site consisting of 140 acres of land has been purchased [illegible] West Park, a suburb of Findlay, by the Continental Sugar Co. for the purpose of erecting a sugar refining plant. The project will cost approximately $750,000.

ROSEVILLE, OHIO.—An addition to cost $125,000 is planned to be built to the pottery plant of Ransbottom Bros., according to reports.

TOLEDO, OHIO.—According to reports, the American Can Co., of New York, has purchased two city blocks and plans to construct a factory, which will be practically double the size of the present plant. The working force will be increased from 600 to 1,000. Estimated cost, $200,000. Charles Stollberg is Gen. Mgr. of the local office.

TOLEDO, OHIO.—Plans have been completed for the construction of a plant for the Warner Mfg. Co. on Central Ave. and along the tracks of the Michigan Central & Lake Shore Railroads. The site is 532 x 600 ft. and is said to have cost $30,000. The contract will be awarded about April 1. T. W. Warner is Pres. Estimated cost of buildings, $150,000.

YOUNGSTOWN, OHIO.—The General Fire Proofing Co. has sold to the General Reinforced Steel Co. its business of manufacturing lug bars for reinforced-concrete construction and a plant to employ 500 men will be erected here, it is stated.

RICHMOND, IND.—The Dille & McGuire Lawn Mower Co. will start work soon on the erection of a concrete factory building at 13th and North F Sts. A permit has been issued by the City Controller. The cost will be $12,000. The building is expected to be completed by July 1.

✚**BATTLE CREEK, MICH.**—M. J. Morehouse, 277 Dearborn St., Chicago, Ill., has awarded the contract for the 5-story factory building, 63 x 150 ft., for the Kellogg Corn Flake Co., of Battle Creek, to the INLAND STEEL CO., 164 Dearborn St., Chicago. Cost, $50,000.

GRAND RAPIDS, MICH.—W. J. Spooner, Powers Theatre Bldg., Grand Rapids, is having plans prepared for a 4-story and basement furniture factory, 50 x 125 ft., to be located at Pearl and Front Sts. Cost, $40,000.

The Maple Product Co., 51 Blumrich St., Grand Rapids, is having plans prepared for a factory building and will soon receive estimates.

✚**GRAND RAPIDS, MICH.**—George L. Stone, Widicomb Bldg., Grand Rapids, has awarded the general contract for the 8-story and basement furniture factory for the Grand Rapids Furniture Temple Co., C. O. Skinner, Secy., Lyon, Division and Ionia Sts., to C. HOERTZ & SON, Porter Bldg., Grand Rapids. Cost, $75,000.

ROCKFORD, ILL.—The Rockford Mitten & Hosiery Co. has purchased land between Eighth and Ninth Sts., in this city upon which it will erect a branch mill. The company's present plant has an equipment of knitting, 120 rib, and 90 sewing machines, employment being given to 700 operatives.

GRAFTON, WIS.—The plant of the Globe Foundry Co., which was almost totally destroyed by fire recently at a loss of $15,000, will be rebuilt at once.

MILWAUKEE, WIS.—The Milwaukee Steam Foundry Co. has been granted a permit to erect a $17,000 foundry building at South Water and Virginia Sts.

MILWAUKEE, WIS.—O. C. Uehling, Arch., Wells Bldg., will soon award contracts for the erection of the paper and box board mill and box factory for the Hummel & Downing Co., at Cambridge Ave. and Thomas St., Milwaukee. It will be of reinforced-concrete construction, 365 x 100 ft., four stories high and cost about $300,000.

NORTH MILWAUKEE, WIS.—The Kreiter Piano Mfg. Co., Conrad Kreiter, Pres., denies that it will build its plant at North Milwaukee, as stated on March 9. A site has practically been chosen at Marinette, Wis.

ST. PAUL, MINN.—Preliminary plans have been prepared by J. F. Denson, Arch., German Life Bldg., for the construction of a 5-story shoe factory for C. Gotzian & Co., at Third St. and College and Pleasant Aves. It will be of pressed brick and cut stone, fireproof construction, 150 x 300 ft., with a steam power plant, automatic sprinkler system and three electric elevators. Cost, $300,000.

J. George Smith, candy manufacturer, will build a 3-story fireproof candy factory at University Ave. and Bedford St. The site for the plant has just been purchased but actual construction will be begun late this summer. Cost, $200,000.

ST. LOUIS, MO.—According to reports, the McKinney Traction Cultivator Co., a Georgia corporation with $1,000,000 capital stock, organized to manufacture a traction cultivator driven by a gasoline engine, has opened an office in the La Salle Bldg., St. Louis, with a view to building a factory here or on the [illegible] Side. It has taken an option on the [illegible] foundry plant of Smith, Meyer & Haas, at 18th St. and Broadway, East St. Louis, and is using it to store machines with which to give demonstrations in an adjoining [illegible]. Factory sites in St. Louis are under consideration. The machine is the invention of W. A. McKinney, of Gainesville, Ga. It plows, harrows, plants, cultivates and harvests the crop. One man runs it. W. A. McKinney is Pres. of the company and W. E. Hosch, Treas. Patents have been put into the company at a valuation of [illegible],000.

A site 151 × 169 ft., at the northwest corner of Clark and Farrison Aves., has been purchased by C. E. Hussman for the purpose of erecting a 4-story brick factory and warehouse to cost $30,000.

DALLAS, TEX.—James A. Dorsey, Henry Dorsey, A. P. Tenison, oJhn V. Hughes, and J. B. Adoue, all of Dallas, are interested in a company that is being organized to manufacture bank and office fixtures. The proposed factory is to cost about $1,000,000 and will be located at Dallas.

EL PASO, TEX.—The Mexican & Indian Drawn Work Co. of El Paso has been organized with $40,000 capital stock and will erect concrete building costing $15,000.

FORT STOCKTON, TEX.—J. H. Baverly of Fort Stockton plans to establish a rope mill here. Details have not been determined, but it can be stated that the intention is to manufacture rope from the lechugrilla and Spanish dagger plants. Mr. Baverley wants information and prices on the necessary machinery.

PLANTERSVILLE, TEX.—T. S. Blake will install a cotton ginning plant at Plantersville.

ROSENBERG, TEX.—W. J. Meininger will install a cotton gin at this place.

The Rosenberg Mill & Elevator Co. recently increased its capital stock from $10,000 to $20,000. It will make improvements to its mill.

SAN BENITO, TEX.—Plans have been adopted for the erection of a 1,000-ton sugar mill at San Benito. It will cost about $1,000,000. Alba Haywood, of San Benito, can give information.

TAYLOR, TEX.—The Farmers Union Warehouse Co. is making god progress with its plans for erecting a cotton ginning plant to cost $25,000 and a 500-ton seed house at this place. J. R. Hargis is Pres.

PORTALES, N. MEX.—The American Beet Sugar Co' is having plans prepared for the establishment of a beet sugar factory at Portales, to cost about $1,500,000.

SEATTLE, WASH.—The Agutter-Griswold Co. has completed arrangements for a factory building to be erected at the south end of Lake Union, at the corner of ALona and Howard Sts. Plans were prepared by Saunders & Lawton, Archs., and is to be erected on the Thomson estate by the Agutter-Griswold Co., at a cost of $25,000. All machinery will be driven by electric motors.

TACOMA, WASH.—John Snyder of the Tacoma Fire Door Co., Cleveland Way, Tacoma, has purchased six acres on the Bay Island waterway, south of Titlow beach, which he will improve at once with a sawmill and planing mill to cost in the neighborhood of $50,000. The plant will also include an electric lighting plant.

BELLA VISTA, CAL.—It is stated that the Terry Lumber Co. will rebuild the box factory at Bella Vista that was destroyed by fire last summer. The new box factory will be larger than the former one, and more persons will be employed. The logging operations of the Terry Co. near Round Mountain will be carried on more extensively than ever before. J. E. Terry is Pres.

LOS ANGELES, CAL.—The Los Angeles Creamery Co. will erect a $250,000 plant on the northeast corner of Twelfth St. and Towne Ave. The proposed structure will be four stories high, of reinforced concrete construction, and will occupy a space of 100 × 160 ft.

RED BLUFF, CAL.—A $60,000 corporation has been organized here, known as the Red Bluff Wool Scouring & Warehouse Co., for the purpose of preparing wools for manufacture and the manufacturing and marketing all kinds of woolen fabrics and products; also to engage in a general warehouse and cold-storage business. The directors are: A. H. McInnes, F. M. Ward, A. F. Brinkman, William Lages and W. H. Fisher. It is understood that the new corporation will take immediate steps to erect and put in operation a first-class plant for this purpose.

SAULT STE. MARIE, ONT.—The Lake Superior Paper Co. has been incorporated in Toronto with a capital of $8,000,000. The company purchased a tract of 20 acres in the heart of Sault Ste. Marie from the city, paying about $325,000 for it. The erection of the new plant, which will adjoin the Lake Superior Corporation's pulp mills, will be begun shortly. The new paper company is also considering the construction of a water power canal to develop 60,000 HP., it is reported.

PORT MANN, B. C.—Negotiations which are expected to be completed in the near future are being conducted by the Canadian Northern Railway and the British Columbia Steel Corporation, capitalized at $10,000,000, for the location of its big steel plant at Port Mann. The plans and estimates of the United Engineering & Foundry Co., of Pittsburg, Pa., have been adopted for the proposed plant. A. P. Gillies is interested.

VANCOUVER, B. C.—Competitive plans for a prize of $500 will be received by The Imperial Car, Shipbuilding & Dry Dock Corporation, 282 Hastings St. E., Vancouver, until May 1, for plans and specifications for its proposed plant at Roche Point. The plant is to cost $350,000, including $150,000 for machinery, and the buildings will occupy a site 400 × 500 ft. Further particulars on application.

MISCELLANEOUS CONTRACTS.

(**Denotes that this work is advertised in Engineering News.*)

U. S. RECLAMATION SERVICE.—All news concerning canal and irrigation projects, etc., will be found under Water Supply—Irrigation.

QUAY WALL EXTENSION.—Portsmouth, N. H.—Bids were received as follows on March 18 by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for the construction of an extension to the granite block quay wall at Portsmouth: (a) number of ft. of wall, which contractor will build for amount of appropriation, $48,500; (b) price per lin. ft. for additions or deductions; (c) price per cu. yd. to be allowed the Government for use of old granite blocks: Roy H. Beattie, Inc., 57 North Main St., Fall River, Mass., (a) 242 ft., (b) $202, (c) $6; Conners Bros. Co., Inc., 157 Plain St., Lowell, Mass., (a) 35 ft. for $30,000, (b) $998, (c) $4; Thomas FitzGibbon, 173 Cabot St., Beverly, Mass., (a) 228 ft., (b) $212.68, (c) $3.

*SUPERSTRUCTURE OF BREAKWATER.—Boston, Mass.—Bids will be received until noon, April 20, by Col. Frederic V. Abbot, Corps Engrs., U. S. A., Boston, for the construction of the superstructure of the breakwater at Sandy Bay, Mass.

DREDGING.—Boston, Mass.—Bids will be received until March 31 by the Board of Harbor and Land Commissioners, State House, Boston, for dredging about 32,000 cu. yds. at Deacons Pond Harbor. The work will consist of removing a shoal near the entrance to Deacons Pond Harbor and to dredge the northeasterly portion of the harbor to extend the anchorage area. The excavated material is to be dumped at sea or deposited on the low land near the harbor. All dredging is to be to the depth of 7 ft. at mean low water; also for dredging about 220,000 cu. yds. from an area about 1,100 ft. long and from 500 to 800 ft. wide in Boston Harbor in front of the Grand Junction Wharves at East Boston. The excavated material to be dumped at sea. All dredging to be to the depth of 35 ft. at mean low water; and for dredging and otherwise improving the harbor at Lake Anthony in the town of Oak Bluffs on Martha's Vineyard. The work to be done is the dredging of about 15,000 cu. yds. of material from the entrance channel and anchorage basin. The dredging to be to the depth of 7 ft. at mean low water in the entrance channel and 6 ft. in the anchorage basin. In addition, the jetties and channel banks are to be further strengthened and protected by about 200 cu. yds. of concrete and about 1,400 tons of stone grout and chips. Frank W. Hodgdon is Ch. Engr. Bd.

ELIMINATION OF GRADE CROSSINGS.—Bronxville, N. Y.—The Public Service Commission, Second District, has approved plans for the elimination of grade crossings of the Harlem Division of the New York Central R. R. here. The cost will approximate $150,000, of which the railroad pays one-half and the village and state each one-quarter.

POLICE SIGNAL SYSTEM.—Buffalo, N. Y.—The City has introduced a bill before the New York State Legislature at Albany permitting the issue of bonds to the amount of $50,000 for putting a police signal service and fire department electric wires underground.

CHANNEL EXCAVATION.—Buffalo, N. Y.—Bids were received as follows on March 14 by Lt.-Col. J. G. Warren, Corps. Engrs., U. S. A., Buffalo, for channel excavation in Black Rock Harbor: North Section: (a) 770,000 cu. yds. place measurement, excavating material overlying bedrock; (b) 65,000 cu. yds., place measurement, excavating bedrock; (c) 10,000 tons handling and placing stone; (d) 5,200 lin. ft. removing wall; (c) removing bridge pier; (f) removing old lock; (g) totals: Breyman Bros., Toledo, Ohio, (a) 25 cts., (b) $2.25, (c) $1, (d) $9, (e) $5,000. Great Lakes Dredge & Dock Co., Chicago, Ill., (a) 15 cts., (b) $2.30, (c) $1, (d) $3.50, (e) $3,000, (f) $10,000, (g) $306,200. Empire Engineering Corporation, New York, (a) 21¼ cts., (b) $2.09, (c) $1.25, (d) $12, (e) $3,800, (f) $4,000, (g) $384,100. Buffalo Dredging Co., Buffalo, (a) 17 cts., (b) $2, (c) 90 cts., (d) $6.50, (e) $2,000, (f) $5,000, (g) $310,700. Great Lakes Construction Co., (a) 19¼ cts., (b) $2.30, (c) $1.20, (d) $7, (e) $1,200, (f) $5,500, (g) $361,250. Bird Inland Section: (a) 9,000 cu. yds., place measurement, excavating material overlying bedrock; (b) 18,000 cu. yds., place measurement, excavating bedrock; (c) 2,500 tons handling and placing capping stone; (d) totals: Great Lakes Dredge & Dock Co., (a) 90 cts., (b) $2.90, (c) $1.25, (d) $63,425. Empire Engineering Corporation, (a) 28 cts., (b) $2.09, (c) $1.25, (d) $43,265. Buffalo Dredging Co., (a) 30 cts., (b) 2.10, (c) $1.05, (d) $43,125. Totals for North and Bird Island Sections were submitted by the following: Great Lakes Dredge & Dock Co., $369,625; Empire Engineering Corporation, $427,365; Buffalo Dredging Co., $353,825.

ELIMINATION OF GRADE CROSSING.—Irvington, N. Y.—The Public Service Commission, Second District, has approved plans for the elimination of the Main St. grade crossing on the Harlem Division of the New York Central R. R. The cost will approximate $80,000, of which the railroad will pay one-half and the state and village one-quarter each.

HOOK AND LADDER TRUCKS.—New York, N. Y.—Bids will be received by R. Waldo, Fire Comr., until 10.30 a. m., April 3, for furnishing and delivering two 75-ft. aerial hook and ladder trucks of self-propelling design.

EXTENSION OF PIERS.—New York, N. Y.—The plans for the extension of Piers 60 and 61, North River and 21st St., Borough Manhattan, to be used for the new liners of of the White Star Line, the "Titantic" and "Olympic," have been approved by the Secretary of War, and were approved on March 17 by Calvin Tomkins, Comr. of Docks. The contract for the work has been awarded to R. P. & J. STAATS. The extensions are being built under the authority of a temporary permit of the Secretary of War and will consist of open grillage-work construction, so as to permit of the full ebb and flow of the tide. The piles will be adequately braced. There will be no deck covering. The extension will make the two piers each 925 ft. in length.

PARK AND PLAYGROUND.—New York, N. Y.—Bids were received by the Park Board, Dept. of Parks, on March 9, as follows, for constructing park and playgrounds bounded by Bedford Ave., Lorimer St., Driggs Ave. and North Twelfth St., being part of McCarren Park, Boro. Brooklyn: Donlon Contracting Co., 84 Broadway, Brooklyn, $69,185; Dominick Bonacci, 672 Degraw St., Brookilyn, $78,001; Cooper & Evans Co., 220 Broadway, New York, $76,632; Charles Cranford, 186 Remsen St., Brooklyn, $82,794; Charles L. Doun Contracting Co., 1015 Walton Ave., New York, $79,795; T. W. Fiske Iron Works, 56 Park Pl., New York, $82,949; Frank T. Gallagher, 490 Park Pl., Brooklyn, $75,895; Hagerty-Drummond Co., 41 Park Row, New York, $94,179; Kelly & Kelley, Inc., 45 East 42d St., New York, $85,050; Norton & Gorman Contracting Co., 339 Douglass St., Brooklyn, $73,002; O'Grady Bros., Brooklyn, $76,871; William Werner, Brooklyn, $85,414.

✚DREDGING.—New York, N. Y.—The contract for dredging at the navy yard, New York, it is reported, has been awarded to P. SANFORD ROSS, INC., 277 Washington St., Jersey City, N. J., at $12,000.

BROKEN STONE, ETC.—New York, N. Y.—Bids were received as follows, on March 13, by Lawrence Gresser, Pres. Boro. Queens, for furnishing and delivering to the Bureau of Highways broken stone and screenings of trap rock: (a) in the Fourth Ward, (b) in the Second, Third and Fifth Wards: Clinton Point Stone Co., (a) $38,697, (b) $21,735; Jacob E. Conklin, (a) $39,428, (b) $21,735; Manhattan Trap Rock Co., (a) $39,574, (b) $21,424.

TOWER.—New York, N. Y.—A tower, 258 ft. high, of brick and cut stone, 24 × 24 ft., tapering to a width of 22 ft. at the top, will be erected in Battery Park. The tower will be part of the proposed new Barge Offices and power plant for the government at the south end of the park, and will be used for observatory purposes. Bids will be received until April 18. The call for bids for the barge offce was noted in the issue of March 9 under Buildings.

REPAIRS TO FERRYBOAT.—New York, N. Y.—Bids will be received by Calvin Tomkins, Comr. of Docks, until noon, March 28, for Contract No. 1278, for furnishing all the labor and materials required for repairs to the municipal ferryboat "Gowanus."

DAM.—Troy, N. Y.—A movement is on foot to build a new concrete dam at the outlet of Cossayuna Lake. The promoters are the owners of motor boats on Cossayuna Lake, and fishermen.

EXTENSION OF PARK SYSTEM.—Newark, N. J.—The Senate has passed a bill to authorize the Board of Freeholders of Essex County to issue bonds for not over $160,000 for extending its park system.

✚TELEPHONE EXCHANGE. — Ardmore, Pa.—The contract for constructing a telephone exchange here for the Bell Telephone Co. has been awarded to E. E. HOLLENBACH, 15th and Race Sts., Philadelphia. The building will be of brick, three stories, 28 × 53 ft. J. T. Windrim is Arch., Commonwealth Bldg., Philadelphia.

EXTENSION OF DOCKS.—Erie, Pa.—The present ore docks of the Carnegie Steel Co. and the Hanna interests in Erie, will be extended, it is reported, out to the harbor line, about three times their present length.

✚TELEPHONE EXCHANGE.—Lansdowne, Pa.—The contract for the construction of a telephone exchange here for the Bell Telephone Co. has been awarded to the CHARLES McCAUL CO., Tenth and Sansom Sts., Philadelphia. J. T. Windrim, Commonwealth Bldg., Philadelphia, is Arch.

✚DREDGING.—Baltimore, Md.—The Board of Awards, on March 15, awarded the contract for the city's dredging for the year to the MARYLAND DREDGING CO., Baltimore. The contract calls for the removal of 203,000 cu. yds. of earth at 15 cts per cu. yd. It is divided as follows: 65,000 cu. yds. in the main harbor channel, 17,000 cu. yds. in the back basin, 60,000 cu. yds. near the docks, 40,000 cu. yds. in Jones' Falls, 21,000 cu. yds. in the main harbor and docks. The only other bidder was the Sanford & Brooks Co., Norfolk, Va., at 15½ cts. per cu. yd.

SUBMARINES.—Washington, D. C.—Bids opened as follows, March 14, by Secretary of the Navy, Washington, for the construction of four submarine torpedo boats, Nos. 32 to 35: Electric Boat Co., Quincy, Mass., boats constructed at the works of the Fore River Shipbuilding Co., Quincy, for Atlantic coast delivery, at the works of Moran Co., Seattle, Wash., or the Union Iron Works, San Francisco, Cal., for Pacific coast delivery; time, one boat in 24 months; two boats in 25 months; three boats in 26 months; four boats in 27 months. Design 29A, 470 tons; Atlantic, one, $518,000; two, $505,000 each; three, $494,000 each; four, $485,000 each; Pacific, one, $554,000; two, $537,000; three, $522,000; four, $508,000. Design 29B, 470 tons; Atlantic, one, $487,000; two, $474,000; three, $463,000; four, $454,000; Pacific, one, $523,000; two, $506,000; three, $491,000; four, $477,000; one, Atlantic, $456,000; three, Pacific, $484,000 each; two, Atlantic, $456,000; two, Pacific, $488,000; one, Atlantic, $470,000; two, Pacific, $502,000. Design 29C, 470 tons, prices in each case, $9,000 less than for Design 29B. Design 29D, 470 tons; prices $5,000 more than Design 29B. Design 30B, 521 tons; prices $10,000 more than for Design 29B. Design 30C, 521 tons; prices $1,000 more than for Design 29B. Design 30D, 521 tons; prices $15,000 more than for Design 29B. The above prices apply, if contract is the same as that for Submarines Nos. 28 to 30, as to payment; $3,000 should be added to each quotation if payment is to be made on the basis of 90% of the work done, as provided in the act of March 4, 1911. Lake Torpedo Boat Co., Bridgeport, Conn., boats constructed at Bridgeport, Conn., for Atlantic delivery; at the works of the Risdon Iron & Locomotive Works, San Francisco, Cal., for Pacific delivery; time, Atlantic delivery, one boat in 21 months, two in 22 months, 3 in 23 months, four in 24 months; Pacific delivery, one boat in 24 months, two boats in 23 and 24 months, respectively. Model A5, 495 tons, Atlantic, one, $492,500; two, $491,000; three, $499,000; four, $490,000; Pacific, one, $517,500; two, $516,000. Model A4, 485 tons, Atlantic, one, $479,500; two, $475,000; three, $473,000; four, $473,000; Pacific, one, $499,500; two, $498,500. Model A6, 600 tons, Atlantic, one, $575,000. American Laurenti Co., one vessel constructed at the works of William Cramp & Sons, Ship & Engine Bldg. Co., Philadelphia, 370 tons, $550,000; 430 tons, $625,000; time, 24 months. Noted on March 16.

STEEL, LEAD, ETC.—Washington, D. C.—Bids will be received until March 28 by the Bureau of Supplies and Accounts, Navy Dept., Washington, for supplies for the navy yards and naval stations as follows: Washington, D. C., Schedule 3398, 16,450 lbs. nickel-steel, 32,450 lbs. hot-rolled or forged steel. Norfolk, Va., Schedule 3401, 3,840 lbs. sheet lead; miscellaneous medium steel, 20,000 lbs. galvanized sheet steel. Schedule 3406, 17,550 lbs. brass pipe, 3,000 ft. w.-i. or steel pipe. Schedule 3407, 12,525 lbs. naval brass, miscellaneous sheet brass. Boston, Mass., Schedule 3401, 4,800 lbs. bar iron, 7,000 lbs. Class B bar steel. Schedule 3405, miscellaneous brass pipe fittings, miscellaneous c.-i. pipe fittings, 1,080 brass unions, 144 gate-valves, miscellaneous brass valves. Schedule 3406, miscellaneous brass and copper pipe. Schedule 3407, 300 lbs. naval brass, miscellaneous sheet brass and copper, etc. Application for proposals should designate the schedules desired by number.

DRY KILN.—Norfolk, Va.—Bids will be received until 11 a. m., April 22, by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for a dry kiln at the U. S. navy yard, Norfolk. Specifications are on file at the office of Engineering News, New York.

TRAVELING CRANE.—Norfolk, Va.—The contract for furnishing a 60-ton electric traveling crane for building No. 23, navy yard, Norfolk, Va., has been awarded by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., to the NILES-BEMENT-POND CO., 111 Broadway, New York, at $11,965.

DREDGING.—Wheeling, W. Va.—Bids will be received until 11 a. m., April 13, by Capt. F. W. Altstaetter, Corps Engrs., U. S. A., Wheeling, for dredging at Dam No. 11, Ohio River.

*STRUCTURAL METAL.—Vicksburg, Miss.—Bids will be received until noon, April 14, by Capt. Clarke S. Smith, Corps Engrs., U. S. A., Vicksburg, for furnishing about 307,000 lbs. of structural metal for use at Locks and Dams Nos. 4 and 8, Ouachita River, Ark. and La.

*EXTENDING JETTIES.—New Orleans, La.—Bids were received as follows on March 17 by Lt.-Col. Lansing H. Beach, Corps Engrs., U. S. A., New Orleans, for extending the jetties at Southwest Pass, Mississippi River: (a) 215,556 sq. yds. mattress; (b) 97,490 tons of stone; (c) total: Christie & Lowe, New Orleans, (a) $1.30 per sq. yd., (b) $4 per ton, (c) $670,183; Doullut & Williams, New Orleans, (a) $1.50, (b) $4.25, (c) $737,666. No bid was received on caisson form of jetty.

*DAM WORK.—Cincinnati, Ohio.—Bids will be received until 2 p. m., April 20, by Maj. John C.Oakes, Corp. Engrs., U. S. A., Cincinnati, for reconstructing in concrete, the top of Dam No. 5, Muskingum River, at Luke Chute, Ohio.

DREDGING PLANT.—Cincinnati, Ohio.—Bids will be received until 2 p. m., April 13, by Maj. A. Jervey, Corps Engrs., U. S. A., Cincinnati, for hire of four dredging plants, each consisting of one dredge, one towboat, and two dump scows.

ELIMINATION OF GRADE CROSSING.—Columbus, Ohio—Contracts for the elimination of the South Side grade crossing will not be awarded until next fall, according to the present plans. When the West Side work is completed, operations will be started in Spring St. and Dublin Ave. Contracts for the West Side work call for completion on July 1.

CANAL, ETC.—Columbus, Ind.—The Indianapolis, Columbus & Southern Traction Co., it is reported, has mapped out plans for constructing a canal seven miles long, 6 ft. deep and 60 ft. wide, which will furnish water power for all of the company's cars between Indianapolis and Seymour for six months in the year and as much longer as the White River will furnish sufficient water for the power. The company will also erect a power house north of here. When the canal furnishes power the power houses now in operation at Edinburg and Greenwich will be shut down, it is stated. Estimated cost, about $200,000.

BASEBALL PARK.—Newcastle, Ind.—The Maxwell-Briscoe Baseball Association, Dal. Williams, Pres., is asking for bids for the erection of a large baseball park near Maxwell Park.

DITCH.—Winchester, Ind.—Bids will soon be asked by the Commissioners of Randolph County for the construction of the Edwards

Ditch in Washington Township. The ditch will be 8½ miles long, one-half tile and one-half open ditch.

*LEVEE.—East St. Louis, Ill.—Bids will be received until noon, April 19, by the Board of Trustees of the East Side Levee and Sanitary District, Sexton Bldg., East St. Louis, for the construction of an earth levee having a crown 8 ft. wide and a length of about three miles, being Construction Project No. 2, Section 1 of Front Levee, and other auxiliary or incidental improvements. The plans, profiles and specifications are now on file in the office of the Clerk. Bids should be based on the following estimates: 200,000 cu. yds. of earth embankment, 130 lin. ft. of 30-in. c.-i. pipe, 10 cu. yds. of concrete, one automatic flood gate, one hand gate and one acre of grubbing. Section 1 of the Front Levee will extend from Cahokia Creek Diversion Channel in a southerly direction to Mitchell, Madison County, Ill., a distance of about three miles. H. D. Sexton is Pres. Bd.

✚DITCH.—Mount Carmel, Ill.—The contract for constructing drainage ditches has been awarded to CARTER BROS., of Danville, Ill., by the Drainage Commissioners, District No. 10, at 13 cts. per cu. yd. Excavation required, about 90,000 cu. yds. Bids were opened on March 4. J. C. Harvey is Engr., Mount Carmel.

FIRE HOSE.—Chicago, Ill.—Bids will be received until 10 a. m., March 23, by Charles F. Seyferlich, Fire Marshal, for furnishing and delivering about 40,000 ft. of 2½-in. best quality seamless mildewproof rubber-lined cotton fire hose, with couplings attached. Bids must be accompanied by a 50-ft. sample of hose.

✚FURNISHING BRUSH.—La Crosse, Wis.—Contracts for furnishing brush for government river improvement work have been awarded as follows: To GEORGE HOLSHAMMER, of La Crosse, for cutting 25,000 yds. for delivery at various points north and south of La Crosse; to CHARLES OTT, of Genoa, for 25,000 yds. for delivery at the lower end of the district.

✚COAL STORAGE SHED, ETC.—Superior, Wis.—The M. C. Hanna Coal Co. has awarded the contract for erecting a reinforced-concrete coal storage shed to the BARNETT & RECORD CO., of Superior, Wis. The contract for furnishing and installing the coal handling machinery, hoists, etc., has been let to the WEBSTER MFG. CO., of Chicago, Ill. The machinery contract amounts to approximately $20,000.

DITCH.—Fort Dodge, Iow Bids were received and rejected Marc by the Joint Board of Supervisors of ter and Calhoun Counties, for furnish material and constructing a ditch and dr in Drainage District No. 70, Webster nty, and in oun County Drainage District No. 95, Estimated cost, $27,406. ids will be received until April 26. J. lanrahan is County Audr.; G. P. Smith Engr., Fort Dodge.

*DREDGING.—Duluth, M ds will be received until noon, April y Lt.-Col. Graham D. Fitch, Corps E U. S. A., Duluth, for dredging in Ash Harbor.

*DREDGING.—Duluth, Min ds will be received until noon, April 2 Lt.-Col. Graham D. Fitch, Corps En U. S. A., Duluth, for dredging at Super try, Duluth-Superior Harbor.

LIST OF CONTRACTS PENDING.

Plans and Specifications on File.

The following plans (P.) and Specifications (S.) are on file for reference only unless otherwise noted at the office of The Engineering News Publishing Co., 220 Broadway, New York.

Bids close.		Noted in issue of
3-24*	Pipe, etc., Lewistown, Mont. (S.)	3- 2
3-25	Dredging, Boston, Mass. (S.)	2-23
3-25	Circulating loop, Vallejo, Cal. (S)	3- 9
3-25	Dredging, etc., Newport, R. I. (S.)	3- 2
3-28	Bridge, Danville, Va. P. & S.)	3- 9
4- 1	Power plant extensions, Portsmouth, N. H. (S.)	3- 9
4- 1	Macadam road, etc., Newport, R. I. (S)	3-16
4- 7	Pipe, etc., Atlanta, Ga. (S.)	3- 9
4-14	Sewer Saskatoon, Sask. (P & S)	3-16
4-20*	Water system, Helena, Mont. (S.)	3-16
4-22	Dry kiln, Norfolk, Va. (S.)	3-23

Light, Heat and Power Plants.

3-23	Arc light carbons, Chicago, Ill.	3-23
3-24	Power-house equipment and wiring, Springfield, Mass.	3-16
3-27	Lighting fixtures, Wash., D. C.	3- 9
3-27	Electric light fixtures, Los Angeles, Cal.	3-16
3-27	Electrical pump, National Military Home, Ind.	3-16
3-27	Franchise, Los Angeles, Cal.	3-16
3-27	Generators and engines, Saskatoon, Sask.	3-16
3-29	Central station equipment, Webster City, Iowa	3-23
3-30	Lighting fixtures, Wash., D. C.	3- 9
3-31	Engines and generators, Kansas City, Mo.	3-23
4- 1	Power-house equipment, Portsmouth, N. H.	3- 9
4- 3	Generators, Los Angeles, Cal.	3-16
4- 4	Ventilating, electric wiring and conduits, Rugby, N. Dak.	3- 9
4- 4*	Subway, Auburn, N. Y.	3-23
4- 5	Heating and electric work, Central Islip, N. Y.	3-23
4-10	Electric lighting system, Omaha, Neb.	3-23
4-19	Generators, etc., Australia (Foreign)	3- 2
4-20*	Power-house equipments and conduits, Albany, N. Y.	3-23
4-20	Power-house equipment, Albany, N. Y.	3-23
5- 1	Lighting standards, Winnipeg, Man.	3-23
Indef*	Electric power, Brookville, Ohio.	3- 9

Bridges.

3-24	Bridge, Cincinnati, Ohio	3- 9
3-24	Bridge, Patoka, Ill.	3-16
3-24	Bridge, Brookville, Pa.	3-16
3-24	Bridge, Richmond, Va.	3-23
3-24	Bridges, Tremont, Ill.	3-23
3-25	Bridges, Streator, Ill.	3-23
3-27	Bridge work, Winnipeg, Man.	3-23
3-27	Bridge, Norwalk, Ohio	3-23
3-27	Bridge repair, Richmond, Ind.	3-23
3-28	Bridges, Niagara Falls, Ont.	3-16
3-28	Bridges, Ventura, Cal.	3-16
3-28*	Bridge, Danville, Va.	3- 9
4- 1	Arch, Fredonia, N. Y.	3- 9
4- 3	Bridges, Idagrove, Iowa	2-23
4- 3	Bridge repairing, Allentown, Pa.	3-16
4- 3	Superstructures, Delaware, Ohio.	3-16
4- 3	Bridge, Monticello, Miss.	3-23
4- 3	Culverts, Lisbon, N. Dak.	3-23
4- 4	Bridges, Cando, N. Dak.	3-23
4- 4	Bridge, Hill City, Kan.	3-23
4- 4*	Bridge, Cape May C. H., N. J.	3-23
4- 4	Bridges, Lagrange, Ind.	3-23
4- 4	Bridge, Brazil, Ind.	3-23
4- 4	Bridge, Auburn, Cal.	3-23
4- 4*	Bridges, Reading, Pa.	3-23
4- 5	Bridges, Rockport, Ind.	3-23
4- 5	Bridge, Kingston, Ont.	3-23
4- 5	Bridges, Shelbyville, Ind.	3-23
4- 5	Bridge work, Columbus, Ohio	3-16
4- 5	Bridge work, Cleveland, Ohio	3- 9
4- 6	Bridge, Germantown, Ohio	3-23
4- 8	Bridges, Vincennes, Ind.	3-23
4- 8	Bridge, Mackay, Idaho	3-16
4-11	Culvert, Clinton, Iowa	3-23
4-12	Bridge work, Xenia, Ohio	3-16
4-14	Bridge, Decatur, Ind.	3-16
4-15	Bridge, Minnitonas, Man.	3- 2
4-15	Bridge, Swan River, Man.	3- 2
4-15*	Bridge work, Kenosha, Wis.	3-16

Buildings.

Bids close.		Noted in issue of
3-24	School, Wyoming, Ohio	3- 9
3-25	Armory, Fond du Lac, Wis.	3- 9
3-25	School, East Youngstown, Ohio.	3-16
3-25	School, Adair, Okla.	3-16
3-25	Station, Campbelltown, N. B.	3-23
3-25	Church, Baltic, S. Dak.	3-23
3-25	Dormitory bldg., Winnipeg, Man.	3-23
3-27	School impvts., Boston, Mass.	3-23
3-27	School, Spring Valley, Minn.	3-23
3-27	City hall and jail, Salina, Kan.	3-23
3-27	School, Boston Mass.	3-16
3-28	U. S. post-office, Spokane, Wash.	3- 9
3-28	High school, Kensington, Kan.	3-23
3-28	School, Waynesburg, Ohio	3-23
3-28	Jail, Green Bay, Wis.	3-23
3-28	Alterations, New York, N. Y.	3-23
3-29	Jail and sheriff's residence, Merrill, Wis.	3-23
3-29	Building, Blue Earth, Minn.	3- 9
3-29	Bank bldg., Lake City, Fla.	3- 9
3-29	School, South Euclid, Ohio	3- 9
3-29	Erection of building, Troy, N. Y.	3- 2
3-29	School, Mt. Carmel, Ill.	3-16
3-30	School, Young America, Minn.	3-16
3-30	U. S. post-office, Alliance, Ohio.	3- 2
3-30	School, Oswego, Kan.	3-23
3-30	School, Springfield, Mass.	3-23
3-31	U. S. post-office, Ionia Mich.	3- 2
3-31	School, Southington, Conn.	3-16
4- 1	Wiring, etc., in hospital, Jackson, Miss.	3- 9
4- 3	School, Ashland, Ohio	3-16
4- 3	Buildings, Cleveland, Ohio	3-16
4- 3	Armory, Portage la Prairie, Man.	3-23
4- 4	Remodeling court-house, Paoli, Ind.	3-23
4- 4	Armory, Levis, B. C.	3-23
4- 4	Church, Lansing, Mich.	3- 9
4- 5*	Hospital, Fort Monroe, Va.	3- 9
4- 6	School, Rosewood, Ohio.	3-16
4- 6	School, Rosewood, Ohio	3-23
4-10	Post-office, Mt. Sterling, Ky.	3- 9
4-10*	U. S. post-office, Connellsville, Pa	3- 2
4-10	Public hall, Port Clinton, Ohio.	3-23
4-11	Schools, Schafer, N. Dak.	3-23
4-14	Post-office, Brazil, Ind.	3- 9
4-14*	School, Hazleton, Pa.	3- 9
4-15	Building, Waterbury, Conn.	3- 2
4-15	Plans, Havana, Cuba	10-20
4-16	U. S. post office approaches, Platteville, Wis.	3-16
4-17	U. S. post office, Ames, Iowa	3-16
4-18	Barge office, New York, N. Y.	3- 9
4-20	U. S. post office, Lagrange, Ga.	3-16
4-21	U. S. post office, McKinney, Tex.	3-16
4-24	U. S. post office, Braddock, Pa.	3-16
5- 1	Plans, Vancouver, B. C. (Mfg. Pl.)	3-23

Water-Works.

3-23	Water mains, Wheaton, Ill.	3-23
3-24	Valves and hydrants, Cleveland, Ohio	3-23
3-24	Water pipe, Riverside, Ill.	3-23
3-24	Pipe and valves, Edmonton, Alta.	3-23
3-24*	W-Wks., Lufkin, Tex.	3-16
3-24	Water pipe, etc., Toulon, Ill.	3-16
3-24	Meters, etc., Saskatoon, Sask.	3-16
3-24*	Pipe, Lewistown, Mont.	3- 2
3-24*	Hydrants, valves, etc., Lewistown, Mont.	3- 2
3-25	Water supply impvt., National Military Home, Ind.	3- 9
3-25	Circulating loop, Vallejo, Cal.	3- 9
3-27	Water-works, El Reno, Okla.	3- 9
3-27*	Water pipe, Pittsfield, Mass.	3-16
3-27	Pumping engine, etc., Chapleau, Ont.	3-16
3-27	Relaying pipe, Boston, Mass.	3-23
3-28	Water pipe, etc., McKeesport, Pa.	3-23
3-28	Castings, Detroit, Mich.	3-23
3-28	Hydrants, valves, etc., Columbus, Mo.	3-23
3-28	Water main, Cleveland Heights, Ohio	3- 9
3-29	Water pipe, etc., Winnipeg, Man.	3- 9
3-29	W.-wks. supplies, Boston, Mass.	3-23
3-29	W.-wks. impvts., Webster City, Ia.	3-23
3-29	Test borings, New York	3-23
3-29	Intake tunnel, San Francisco, Cal.	3-23
3-30	Water system, Prescott, Wis.	3-23
3-30	Water-wks., Coldwater, Kan.	3-23
3-30	Pumping engine, Kansas City, Mo.	3- 9
3-31*	Filtration plant, Saskatoon, Sask.	3- 9
3-31	Reservoir, Troy, N. Y.	3- 9
3-31	Valves, pipe, etc., Troy, N. Y.	3-16
3-31	Gate well, etc., Astoria, Ore.	3-16
3-31	Masonry for water tower, Minneapolis, Minn.	3-23
3-31	Water system, Tulsa, Okla.	3-23
4- 1	Reservoir, Tacoma, Wash.	3-23
4- 1	Water-works, West Telford, Pa.	2- 2
4- 3*	Water main, Galveston, Tex.	2-23
4- 3*	Cement, Denver, Colo.	3- 9
4- 3*	Pumps, Welland, Ont.	3-16
4- 3	Pipe line, Vallejo, Cal.	3-23
4- 3	Water-works, Lodgepole, Neb.	3-23
4- 3	Vault pans, New York	3-23
4- 4	Pump-house, Fort Baker, Cal.	3-23
4- 4	Water tower, Lakewood, Ohio	3-16
4- 4	Pumping machinery, etc., Rouleau, Sask.	3-16
4- 5	Reservoir, Somerset, Pa.	3-16
4- 5	Reservoir, etc., Keeseville, N. Y.	3- 9
4- 5*	Pump, Winnipeg, Man.	3-23
4- 7*	Diversion dam, etc., Chambersburg, Pa.	3-16
4- 8	Water meters, Edmonton, Alta.	3-23
4- 8*	Pumps, Sioux City, Iowa	3-23
4-10	Water extensions, etc., Moose Jaw, Sask.	3- 9
4-10*	Water wheels, Cincinnati, Ohio.	3-23
4-12	Standpipe, Tucson, Ariz.	3-23
4-15	Storage dam, Wells, Nev.	2-23
4-15*	Dam, etc., North Yakima, Wash.	3- 2
4-15*	Water softening plant, Ft. McKinley, Me.	3- 2
4-19	Pipe, Winnipeg, Man.	3-23
4-20*	Water system, Helena, Mont.	3-16

Sewers.

Bids close.		Noted in issue of
3-23	Sewer pipe, Albany, N. Y.	3-23
3-23	Sewer, Wheaton, Ill.	3-23
3-23	Sewers, Youngstown, Ohio	3-23
3-23	Sewers, Dayton, Ohio	3-23
3-24	Tile ditches, Eldora, Iowa	3-23
3-24	Sewers, Burlington, Wis.	3-23
3-24*	Sewers, Louisville, Ky.	3- 2
3-24	Sewers, Putnam, Conn.	3- 9
3-25	Sewer, Galva, Ill.	3-16
3-27	Sewers, Minot, N. Dak.	3- 9
3-27	Sewers, Huron, S. Dak.	3-23
3-27	Sewers, Yuma, Ariz.	3-23
3-28	Sewers, Cleveland Heights, Ohio.	3- 9
3-29	Sewers, New York, N. Y.	3-23
3-30	Sewers, Appleton, Wis.	3-23
3-31	Sewers, Des Moines, Iowa	3-23
3-31	Sewers, Ft. Leavenworth, Kan.	3-16
4- 1	Sewer, Allegan, Mich.	3-16
4- 1	Sewers, East Hartford, Conn.	3-23
4- 3	Sewers, New York, N. Y.	3-23
4- 4*	Sewer supplies, Saskatoon, Sask.	3- 9
4- 4	Sewers, Clinton, Iowa	3-23
4- 5*	Sewer, Chicago Heights, Ill.	3-23
4- 6	Sewer system, South Milwaukee, Wis.	3-23
4- 7	Sewers, Albert Lea, Minn.	3-23
4-10	Sewers, Moose Jaw, Sask.	3- 9
4-10*	Sewer, Chambersburg, Pa.	3-16
4-11*	Sewers, South Orange, N. J.	3-23
4-14	Sewer, Saskatoon, Sask.	3-16
4-15	Sewers, Cleveland, Ohio	3-16
4-15*	Sewer, Kenosha, Wis.	3-16
4-20	Sewer system, Amherst, Ohio	3-23
7- 3	Sewage disposal system, San Jose, Cal.	2-23

Streets and Roads.

3-24	Grading, etc., Hamilton, Ohio	3-16
3-24*	Road improvement, Albany, N. Y.	3- 2
3-24	Road impvt., Cincinnati, Ohio	3- 9
3-24	Grading, etc., Columbus, Ohio	3-23
3-24	Paving, etc., Burlington, Wis.	3-23
3-25	Broken stone, Evansville, Ind.	3-23
3-25	Paving, Sioux City, Iowa	3-23
3-25	Grading, etc., Bucyrus, Ohio	3-23
3-25	Road gravel, New York	3-23
3-25	Pavement, etc., Watertown, Wis.	3- 9
3-25	Paving, etc., Racine, Wis.	3- 9
3-25	Paving, Richwood, Ohio	3- 9
3-25	Macadam road, Havana, Ohio	3-16
3-27	Grading, etc., Galveston, Tex.	3-16
3-27	Road gravel, etc., New York	3-16
3-27	Sidewalk, Brookline, Mass.	3-23
3-27	Sidewalks, Elkhart, Ind.	3-23
3-28	Grading, Newark, N. J.	3-23
3-28	Paving, Bucyrus, Ohio	3-16
3-28	Grading and paving, Caldwell, Ohio.	3-16
3-28	Grading and paving, Belle Valley, Ohio.	3-16
3-28	Road construction, Noblesville, Ind.	3-16
3-28	Paving, etc., Cleveland Heights, O.	3- 9
3-28	Road work, Bowling Green, Ohio.	3- 9
3-29	Paving, etc., Ravenna, Ohio	3-16
3-29	Macadam road, Washington, Va.	3-16
3-29	Paving, Spokane, Wash.	3-23
3-29	Grading, etc., Indianapolis, Ind.	3-23
3-29	Paving, etc., McPherson, Kan.	3-23
3-29	Grading, etc., Cleveland, Ohio	3-23
3-29	Paving, etc., Ashtabula, Ohio	3-23
3-30	Paving, Poughkeepsie, N. Y.	3-23
3-30	Paving, Newark, N. J.	3-23
3-30	Paving, etc., Guelph, Ont.	3-16
3-30*	Pavement, Poughkeepsie, N. Y.	3-16
3-31*	Paving, etc., Wilmington, Del.	3- 9
3-31	Road repairing, Toledo, Ohio	3-23
3-31	Grading, etc., Bowling Green, O.	3-23
4- 1	Sidewalks, etc., Middletown, Ohio.	3-23
4- 1	Pavement, Logansport, Ind.	3-16
4- 1	Road impt, Cleveland, Ohio	3-16
4- 1	Grading, Merrill, Iowa	3-16
4- 1	Road work, etc., Newport, R. I.	3-16
4- 3	Road construction, Fowler, Ind.	3-16
4- 3	Road construction, Hartford City Ind.	3-16
4- 3	Road work, Bronson, Iowa	3- 9
4- 3	Sidewalks, Grafton, N. Dak.	3-23
4- 3	Paving, New Philadelphia, Ohio.	3-23
4- 3*	Paving, Port Jervis, N. Y.	3-23
4- 3	Grading, etc., Ingram, Pa.	3-23
4- 3	Street impvt., Jersey City, N. J.	3-23
4- 3	Paving, Goshen, Ind.	3-23
4- 3	Paving, New York, N. Y.	3-23
4- 4	Gravel roads, Kokomo, Ind.	3-23
4- 4	Road construction, Waterbury, Conn.	3-23
4- 4	Crushed stone, Bowling Green, O.	3-23
4- 4	Macadamizing, Crookston, Minn.	3-23
4- 4	Grading, Centralia, Wash.	3-23
4- 4	Roads, Bedford, Ind.	3-23
4- 4	Grading, etc., Winamac, Ind.	3-23
4- 4	Road, Madison, Ind.	3- 9
4- 4	Road construction, Wetumpka, Ala.	3-16
4- 4	Gravel road, Danville, Ind.	3-16
4- 4	Gravel road, Logansport, Ind.	3-16
4- 4	Macadam road, Paoli, Ind.	3-16
4- 4	Macadam road, Kentland, Ind.	3-16
4- 4	Macadamized road, Bloomfield, Ind.	3-16
4- 5	Paving, Knoxville, Tenn.	3-16
4- 5	Stone road, Bloomington, Ind.	3-16
4- 5	Culverts, etc., Rugby, N. D.	3- 9
4- 5	Road impvt., Coupeville, Wash.	3- 2
4- 6*	Curbing, etc., Cambridge, Md.	3-2
4- 6	Grading, Riverside, Cal.	3-16
4- 5	Gravel road, Muncie, Ind.	3-23
4- 6	Road, Rockville, Ind.	3-23
4- 7	Gravel roads, Brookville,	3-23
4- 7	Gravel road, Wabash, Ind.	3-23
4- 7	Walks, Fort Howard, Md.	3-16
4- 7	Road repairing, Cincinnati, Ohio	3-16
4-10*	Road construction, Madison Barracks, N. Y.	3-16
4-10	Paving, Lawton, Okla.	3-23
4-10	Paving and curbing, Cresco	3-23
4-11*	Roads, etc., Fort Douglas,	3-23
4-15	Grading, etc., Cleveland, Ohio	3-23
4-15	Road construction, Swedisboro, N. J.	3-16
4-17	Grading, etc., Portsmouth, Ohio.	3-23
4-17*	Paving, Johnstown, N. Y.	3-23
4-18	Paving, Dublin, Ga.	3-23

Miscellaneous.

3-23	Fire hose, Chicago, Ill.	3-23
3-23	Crematory (Garbage), N. Y.	3-23
3-24	Garbage collection, etc. (garbage), Carnegie, Pa.	3-23
3-24*	Rock railway material, Panama, (U. S. Poss.)	1-26
3-25	Railroad cars, Chile (Foreign).	2-16
3-25	Dredging, Boston, Mass.	2-23
3-25	Dredging, etc., Newport, R. I.	3- 2
3-25	Retaining wall, Mount Vernon, O.	3- 9
3-25	Engine house, London, Ont.	3-16
3-25	Refuse destructor (garbage), Buffalo, N. Y.	3-23
3-27	Disposal plant (garbage), McKees Rocks, Pa.	3-23
3-28	Steel, lead, etc., Wash., D. C.	3-23
3-28	Repairs to ferryboat, N. Y.	3-23
3-28	Ditch, Sibley, Iowa	3-16
3-30	Fire station, Vancouver Barracks, Wash.	3-16
3-30	Dredging, Grand Rapids, Mich.	3- 9
3-30	Dams, etc., Panama (U. S. Poss.-	1-10
3-30*	Dredging, Wilmington, Del.	3- 2
3-30	Machinery (garbage), Columbus, Ohio	3-23
3-30	Levee work, Van Buren, Ark.	3-23
3-31	Dredging, Boston, Mass.	3-23
3-31*	Dredging, Galveston, Tex.	3- 9
4- 1	Bridge, Spain (Foreign-	2- 2
4 1	Cruisers, destroyers, Ottawa, Ont.	2- 9
4- 1	Telephone system, Pense, Sask.	3-23
4- 3	Wharf, Vallejo, Cal.	3-23
4- 3	Elevator, Texarkana, Tex.	3-23
4- 3	Copper roof, Franklin, Ind.	2-16
4- 3*	Street roller, Sacramento, Cal.	3-16
4- 3	Fire apparatus, Los Angeles, Cal.	3-16
4- 3	Hook & ladder trucks, New York.	3-23
4- 4	Gateway lodge-house, Columbus, Ind.	3-16
4- 4	Wharf, Chateauguay, Que.	3-16
4- 4	Retaining wall, Grand Rapids, Minn.	3-23
4- 4	Cable, Australia (Foreign	2-23
4- 4*	Rail and ties, Toronto, Ont.	3- 2
4- 5*	Steel barges, Memphis, Tenn.	3- 9
4- 6	Rock, New Orleans, La.	3-16
4- 7	Pipe, etc., Atlanta, Ga.	3- 9
4- 7	Stone, Seattle, Wash.	3-16
4- 7	Ditch, Benridge, Minn.	3-23
4-10	Cross and switch ties, Panama (U. S. Poss)	3-23
4-10	Channel excavation, Buffalo, N. Y.	3- 9
4-10	Valve jacks, Wheeling, W. Va.	3- 9
4-10*	Sluice gates, Detroit, Mich.	3- 9
4-10*	Dredging, Detroit, Mich.	3-16
4-11*	Rock excavation, Portland, Me.	3-16
4-13	Dredging plant, Cincinnati, Ohio.	3-23
4-13	Dredging, Wheeling, W. Va.	3-23
4-14*	Structural metal, Vicksburg, Miss.	3-23
4-15	Iron trucks, safes, etc., Egypt (Foreign)	3- 9
4-15*	Dredging, Duluth, Minn.	3-23
4-19*	Levee, East St. Louis, Ill.	3-23
4-20*	Superstructure of breakwater, Boston, Mass.	3-23
4-20*	Dredging, Duluth, Minn.	3-23
4-20	Hospital, etc., (plans and designs-Argentine Republic (Foreign)	1-12
4-20*	Dam work, Cincinnati, Ohio	3-23
4-22	Dry kiln, Norfolk, Va.	3-23
4-26	Ditch, Fort Dodge, Iowa	3-23
8- 1	Designs, etc., for monument, Cincinnati, Ohio	2- 9

Examinations.

Examination date.		Noted in issue of
3-31	Engineer-Physicist, Wash., D. C.	3- 9
4- 1	Resident Engineer, Albany, N. Y.	3- 9
4- 1	Superintendent Water Supply, White Plains, N. Y.	3- 9
4-12	Junior engineer (Mining), Washington, D. C.	3-23
4-12	Junior Engineer (mechanical), Washington, D. C.	3-23
4-12	Cadet Engineer, Washington, D. C.	3-16
4-15	Magnetic Observer, Washington, D. C.	3-16
4-19	Aid in Chemistry, Washington D. C.	3-16
4-19	Junior Chemist, Washington, D. C.	3-16
4-19	Statistician in Forest Products, Washington, D. C.	3-16
4-19	Laboratory Aid, Washington, D. C.	3-16
4-22	Assistant Director, Wash., D. C.	3-23
5- 3	Junior chemist, Wash., D. C.	3-23

DITCH.—Bemidji, Minn.—Bids will be received until April 7 by J. L. George, County Audr., Bemidji, for constructing Judicial Ditch No. 5 and its branches. The work includes a ditch about 15 miles long, 4 and 5-ft. wide at bottom, with an average depth of [illegible] slopes 1 to 1, requiring the excavation of 72,496 cu. yds. There will also be [illegible] miles of highway to be constructed and 20 corrugated iron culverts in connection with the work.

RETAINING WALL.—Grand Rapids, Minn. —M. A. [illegible], County Audr., will receive bids until 10 a. m., April 4, for the construction of 300 ft. of retaining wall and ballasting the embankment on the courthouse grounds. D. V. Case & Broomhall, are Archs., Duluth.

DRAINAGE.—Alma, Kan.—The Commissioners of Wabaumee County are considering drainage work at Maple Hill. V. R. Parkhurst is Engr.

DRAINAGE DITCH.—Topeka, Kan.—The Commissioners of Shawnee County are considering the construction of a 5-mile drainage ditch between Rossville and Silver Lake, in Shawnee County. V. R. Parkhurst, Topeka, is Engr.

LEVEE WORK.—Van Buren, Ark.—Bids will be received by James Gould, Pine Bluff, Ark., until noon, March 30, for concrete work on the Crawford County Levee.

ELEVATOR.—Texakana, Tex.—Bids will be received until April 3 by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for installing an electric passenger elevator in the U. S. Court House here.

STONE.—Seattle, Wash.—The amount of stone to be delivered at Grays Harbor, Wash., bids for which will be received by Maj. C. W. Kutz, Corps Engrs., U. S. A., Seattle, until April 7, is 375,000 tons. Brush fascines, piling and poles are also required. Noted on March 16.

TUNNEL.—Portland, Ore.—The contract has been awarded by the Mount Hood Ry. & Power Co. to A. J. McCABE for constructing a tunnel from the Big Sandy River to Little Sandy to carry water for the hydraulic power plants the company is now building. The tunnel will be 4,790 ft. in length, 14 ft. wide and 11 ft. high. Estimated cost, $125,000.

+PIER.—Eureka, Cal.—The contract for the construction of a new pier, 350 ft. long and 8 ft. wide at New Era Park, has been awarded to the MERCER-FRASER CO.

+FILLING.—Los Angeles, Cal.—The contract has been awarded to E. N. GIRARD for filling the north wing of approach to the new Buena Vista St. viaduct. The work will require over 27,000 yds. of material. Estimated cost, about $10,000.

BREAKWATER. — Monterey, Cal. — Both Houses of the Legislature have passed an appropriation for $200,000 for the Monterey breakwater, including a railroad into the San Joaquin Valley. The government, it is reported, will contribute $400,000 for the work.

FAIR GROUND IMPROVEMENTS.—Sacramento, Cal.—A bill has been passed by the Senate appropriating $55,000 for improvements to the State Fair Grounds here.

CANAL.—San Jose, Cal.—Bids will be received about May 1, it is reported, for the construction of a lock canal between San Jose and South San Francisco Bay. Estimated cost, about $500,000. Capt. George H. Cooper, San Jose, is interested.

WHARF.—Vallejo, Cal.—Bids will be received until April 3 by the Board of Public Works for the construction of the new municipal wharf at the foot of Lemon St., in South Vallejo.

DOCK AND SLIP.—Saulte Ste. Marie, Ont.—The Ontario Dock Co., it is reported, will add 200 ft. of new dockage and a 600-ft. slip to its property here. Estimated cost, $100,000.

ICE RINKS.—Nelson, B. C.—Lester Patrick is arranging for the erection of four artificial ice rinks. The one at Vancouver, B. C., will cost $250,000; at Victoria, B. C., $100,000; Calgary, Alta., $50,000; Edmonton, Alta., $50,000. Work will be started next month. If these prove successful other rinks will be built.

POLICE AND FIRE ALARM SYSTEM.—Vancouver, B. C.—The City Electrician is preparing plans and specifications for the installation of a modern fire and police alarm and signal system; also for red lights to be placed over each fire alarm box.

TELEPHONE SYSTEM. — Pense, Sask. — Bids will be received until noon, April 1, by F. R. Groves, Secy., for the construction of a telephone system, complete, for the Rufus Rural Telephone Co.

U. S. POSSESSIONS.

CROSS AND SWITCH TIES.—Panama.—Bids will be received until 10.30 a. m., April [illegible], by Capt. F. C. Boggs, Corps Engrs., U. S. A., Gen. Pur. Officer, Isthmian Canal Comn., Washington, D. C., for furnishing cross and switch ties for the period ending June 30, 1910, per Circular No. 625.

LOCK GATE RECESS COVERS, ETC.—Panama.—The contract, it is reported, has been awarded by Capt. F. C. Boggs, Corps Engrs., U. S. A., Gen. Pur. Officer, Isthmian Canal Comn., Washington, D. C., for lock gate recess covers, including structural material, castings, etc., to the U. S. STEEL PRODUCTS CO., 30 Church St., New York, at $129,360; delivery to commence in 155 days and complete in 185 days.

COPPER.—Panama.—Bids were received as follows on March 16 by the Isthmian Canal Commission for furnishing 80,000 lbs. of ingot copper: U. T. Hungerford Brass & Copper Co., New York, $10,320; Nassau Smelting & Refining Works, New York, $10,-[illegible]56; L. Vogelstein, 42 Broadway, New York, $10,240.

CONTRACT PRICES.

(**Denotes that this work is advertised in Engineering News.*)

*BRIDGE.—Cedar Rapids, Iowa.—Bids for constructing a six-span concrete bridge at Third Ave. over Cedar River, were received March 15 by L. J. Storey, City Clk., from: (A) B. J. Sweatt, Boone, Iowa; (B) Bates & Rogers Construction Co., Chicago, Ill.; (C) Lorimer & Gallagher, Chicago; (D) Midland Bridge Co., Kansas City, Mo.; (E) Cleary White Construction Co., Chicago; (F) Cullen Friestedt Co., Chicago; (G) Hoy & Elzy, St. Paul, Minn. The item bids were as follows:

REINFORCED CONCRETE BRIDGE, CEDAR RAPIDS, IOWA.

	A	B	C	D	E	F	G
All concrete in piers and abutments, except below springing lines of arches, per cu. yd	$8.25	$8.30	$9.65	$13.00	$12.50	$7.30	$8.25
All concrete in retaining walls or abutment wings, per cu. yd	8.60	9.50	7.30	16.00	12.50	7.00	8.25
All concrete above springing lines of arches, per cu. yd	7.20	10.00	8.30	11.50	6.50	5.40	8.50
All reinforcing and other metal, per lb.	.035	.033	.032	.03	.03	.035	.025
All filling between spandrel walls, per cu. yd.	.85	1.00	.60	.50	.55	.60	.75
Handrails or parapets complete, per lin. ft.	3.00	2.50	2.50	3.00	1.35	2.25	2.27
Lamp-posts, each	25.00	35.00	45.00	125.00	12.00	150.00	75.00
All piling below concrete base, per lin. ft.	.60	.52	.40	.60	.40	.40	.40
Electric lighting system, complete, (lump sum)	1,900.00	1,600.00	1,760.00	1,900.00	2,000.00	1,900.00	1,780.00
Removing and storing old spans, piers and abutments (lump sum)	1,860.00	3,415.00	3,401.00	5,500.00	3,100.00	2,725.00	4,000.00
Erecting five old spans without floor or joists (lump sum)	2,200.00	5,567.00	3,582.00	1,500.00	3,300.00	2,384.00	5,000.00
All concrete in the six-cylinder piers, per cu. yd	7.00	10.35	14.50	7.00	7.00	10.00	10.00
All steel in cylinder piers, in place, per lb.	.04	.0585	.0275	.06	.045	.0674	.033
All piling in cylinder piers, per lin. ft.	.75	.75	2.00	.75	.65	.50	.50
Totals	$155,989	$202,013	$167,375	$216,429	$182,532	$211,631	$170,400

Readers' Wants

If you are in the market for material, equipment or supplies, and fail to find it in our advertising pages, send us full particulars, and we will gladly put you in touch with the right parties.

ROCK CRUSHING MACHINERY. — New York City.—Suffern & Co., 90 Wall St., desire information for a customer on rock crushing machinery for export.

CONCRETE TOOLS.—Brooklyn, N. Y.—The Randel Concrete Construction Co., 1438 President St., writes us for information concerning manufacturers of tools for use on concrete work.

FOOT GUARDS—.Erie, Pa.—L. C. Reynolds, Res Engr. of the Pennsylvania General Electric Co., desires to obtain information concerning the manufacturer of the Greene pattern foot guards for railroad frogs.

STREET CLEANING MACHINERY. — Champaign, Ill.—We are in receipt of a letter from M. W. Grigsby, 403 East Chalmers St., stating that he desires catalogs and information on street cleaning machinery for the purpose of thesis work.

CONCRETE SYSTEMS.—Alexandrie, Egypt, —We are requested by Mr. A. S. Carousso, 5, Rue Colonne, Khartoum 5, to furnish him with the names of reliable concerns who might be in a position to place their system of concrete reinforcement in Egypt, with Mr. Carousso as agent.

EXAMINATIONS.

ASSISTANT DIRECTOR.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on April 22 to secure eligibles from whnch to make certification to fill a vacancy in the position of Assistant Director, Office of Public Roads, Department of Agriculture, at $3,000 a year, and vacancies requiring similar qualifications as they may occur, unless it shall be decided in the interest of the service to fill the vacancy by reinstatement, transfer, or promotion. The examination will consist of the subjects mentioned below, weighted as indicated: Education and technical training, 25 points; experience in practical road building, 30 points; practical experience and fitness in the executive and administrative side of road work, 30 points; publications, 15 points. Applicants must have reached their 30th birthday. Examination form 304 and special form.

JUNIOR CHEMIST.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on May 3-4 to secure eligibles from which to make certification to fill vacancies as they may occur in the position of Junior Chemist in the Bureau of Mines at Pittsburg, and other branches of the service, at salaries ranging from $1,020 to $1,380 a year, unless it shall be decided in the interest of the service to fill such vacancies by reinstatement, transfer or promotion. The examination will consist of the subjects mentioned below, weighted as indicated: Mineralogy, 5 points; translation from French or German technical works, 10 points; physics, including calculations, 10 points; essay on a subject relating to chemistry, 20 points; chemistry, 30 points; training and experience, 25 points. Applicants must have reached their 21st, but not their 40th, birthday. Examination form 1312.

DRAFTSMAN-CARTOGRAPHER. — Washington, D. C.—The U. S. Civil Service Commission announces an examination on April 22, to secure eligibles from which to make certification to fill a vacancy in the position of Draftsman-Cartographer in the Philippine Service, at $1,800 a year and vacancies requiring similar qualifications as they may occur, unless it shall be decided in the interest of the service to fill the vacancy by reinstatement, transfer, or promotion. Applicants should have a fair knowledge of mathematics and surveying, must be able to lay out and plot, and be good draftsmen. Not less than five years' field and office experience is requisite. The examination will consist of the subjects mentioned below, weighted as indicated: Samples of work submitted with application, 50 points; training and experience, 50 points. Applicants must have reached their 18th but not their 40th birthday Examination form B. I. A. Q.

JUNIOR ENGINEER (MECHANICAL).—Washington, D. C.—The U. S. Civil Service Commission announces an examination on April 12-13, to secure eligibles from which to make certification to fill a vacancy in the position of Junior Engineer (Mechanical) at $1,020 a year, Bureau of Mines, Pittsburg, Pa., and vacancies requiring similar qualifications as they may occur in the Bureau of Mines at Pittsburg and at Washington, D. C., at salaries of from $900 to $1,380 a year, unless it shall be decided in the interest of the service to fill the vacancy by reinstatement, transfer or promotion. This examination will be given in lieu of the examination described in section 165 of the Manual of Examinations for the spring of 1911. The examination will consist of the subjects mentioned below, weighted as indicated: Elementary chemistry and physics, 10 points; essay on a mechanical engineering subject, accompanied by sketches, 20 points; mechanics and dynamics of engineering, 10 points; mechanical engineering, including testing of fuels, 30 points; training and experience, 30 points. Applicants must not have reached their 40th birthday. Examination form 1312.

JUNIOR ENGINEER (Mining).—Washington, D. C.—The U. S. Civil Service Commission announces an examination on April 12-13 to secure eligibles from which to make certification to fill vacancies as they may occur in the position of Junior Engineer (Mining), at from $900 to $1,380 a year, Bureau of Mines, Pittsburg, Pa., and vacancies requiring similar qualifications in the Bureau of Mines, Washington, D. C., unless it shall be decided in the interest of the service to fill such vacancies by reinstatement, transfer, or promotion. This examination will be given in lieu of the examination described in Section 165 of the Manual of Examinations for the spring of 1911. The examination will consist of the subjects mentioned below, weighted as indicated: Elementary chemistry and physics, 10 points; mineralogy and geology, 10 points; essay, accompanied by sketches, on a subject relating to mining, 10 points; mechanics and dynamics of engineering, 10 points; mining operations, including tunneling, blasting, hoisting, ventilation, shaft sinking, etc., 30 points; training and experience, 30 points. Applicants must not have reached their 40th birthday. Examination form 1312.

CADET OFFICER.—Washington, D. C.—The U. S. Civil Service Commission invites attention to the examination for Cadet Officer in the Lighthouse Service, scheduled to be held on April 12. As a result of this examination it is expected to fill several vacancies at entrance salaries of from $600 to $720 a year, with quarters and subsistence, unless such vacancies are filled by reinstatement, transfer or promotion. Applicants will be notified in advance of the examination what books, if any, they will be required to bring with them for use in the examination. The list of places at which this examination will be held and information as to the scope and character of the examination are contained in the Manual of Examinations, which, together with application and examination form 1312, may be obtained from the U. S. Civil Service Commission, Washington, D. C., or the Secretary of the Board of Examiners at the Post-Office at Boston, Mass., Philadelphia, Pa., Atlanta, Ga., Cincinnati, Ohio, Chicago, Ill., St. Paul, Minn., Seattle, Wash., San Francisco, Cal., San Juan, P. R.; Customhouse, New York, N. Y., New Orleans, La; Honolulu, Hawaii; Old Customhouse, St. Louis, Mo.

INDUSTRIAL NOTES.

THE CITY CONTROLLER of Winnipeg, Man., will soon advertise for a manager for the $3,500,000 municipal power plant now nearing completion.

WILLIAM MILLER BOOTH, Syracuse, N. Y., announces that he has opened a branch office at 299 Broadway, New York City. In the New York office Mr. Booth will take care of chemical and engineering work as in the Syracuse office.

THE CROCKER-WHEELER CO., Ampere, N. J., announces that Mr. Clarence E. Delafield has been appointed district manager with headquarters at Boston Safe Deposit and Trust Bldg., 201 Devonshire St., Boston.

BIRCH, RILEY & CO., New York City, sales agents for the Universal Stoker, have opened a Boston office in the Oliver Building, 141 Milk St., Room 954, where Mr. Charles H. Sammons will have his headquarters.

FRANK S. AVERY, formerly with the contracting firm of Mohrman-Avery Co., Camden, N. J., has formed a co-partnership with Eugene F. Verga. The style of the new name is Verga & Avery, with headquarters at 411 Market St., Camden, N. J.

THE LIBERTY MANUFACTURING CO., and Elliott Co., of Pittsburg, Pa., manufacturers of Power House Accessories, will move their New England office from 102 High St. to the Oliver Bldg., 141 Milk St., Room 954, where their representative, Mr. Herbert E. Stone, will be glad to see their customers and friends.

MR. EDWARD F. HUGHES, for many years connected with the water supply installation and at present a water commissioner of Watertown, for years the well known representative of the Chapman Valve Co. in the New England States has opened an office in the Oliver Bldg., 8 Oliver St., Room 954, where he may be consulted on artesian and driven wells, tests for foundation work, geological research and water supply for manufacturing, public or private purposes.

THE FIRM OF LEWIS & KITCHNER announce that Samuel R. Lewis has been admitted to partnership. Mr. S. R. Lewis is the son of Edward C. Lewis and for 14 years has been identified with the business as consulting engineer. Offices will be maintained as heretofore in Chicago and Kansas City, with factory in Kansas City.

For other Proposal Advertisements see pages 49, 51, 52, 53, 56 of Advertisements and Construction News page 144.

PAVING.

Johnstown, N. Y.

Sealed proposals will be received at the office of the undersigned up to 7.30 p. m. of April 17th, 1911, for Bituminous Macadam Paving, and Stone Curbing, on East and West State Streets for the approximate amounts.

8,535 square yards of bituminous macadam on East State Street.

3,280 square yards of bituminous macadam on West State Street.

3,000 feet of stone curbing on East State Street.

900 square yards of cobble gutter on East State Street.

985 square yards of cobble gutter on West State Street.

Bidders are required to submit a certified check of $500.00 with bid.

Plans, Profiles and Specifications may be seen, and blank forms, and all necessary information obtained at the office of the City Engineer of said city.

GROVER E. YERDON,
City Clerk.

SEWER PIPE, ETC.

Chicago Heights, Ill.

The Board of Local Improvements will receive bids until 7.30 P. M., April 5th, 1911, for the construction of Storm Sewer No. 3; 5,514 ft. of reinforced concrete sewer pipe ranging from 24 to 42 inches; 6,798 ft. of tile pipe, ranging from 15 to 18 inches; 101 catch basins; 39 manholes; 15 cu. yds. of concrete. W. E. LEINNERTZ is Secy. of Board.

U. S. ENGINEER OFFICE, Room 415 Customhouse, Cincinnati, O., March 20, 1911.—Sealed proposals for reconstructing, in concrete, the top of Dam No. 5, Muskingum River, at Luke Chute, Ohio, will be received here until 2 p. m., standard time, April 20, 1911, and then publicly opened. Information on application. JOHN C. OAKES, Maj., Engrs.

U. S. ENGR. OFFICE, Boston, Mass., March 20, 1911.—Sealed proposals for construction of superstructure of breakwater at Sandy Bay, Mass., will be received here until 12 M., April 20, 1911, and then publicly opened. Information on application. FREDERIC V. ABBOT, Col., Engrs.

U. S. ENGINEER OFFICE, Duluth, Minn., March 20, 1911.—Sealed proposals for dredging at Superior Entry, Duluth-Superior Harbor, will be received at this office until noon, April 20, 1911, and then publicly opened. Information on application. GRAHAM D. FITCH, Lt.-Col. Engrs.

POWER HOUSE AND CONDUIT EQUIPMENT.

STATE OF NEW YORK.
Albany, N. Y.

Sealed proposals will be received by the Secretary of the Trustees of Public Buildings, in the Executive Chamber, Capitol, Albany, N. Y., up to 12 o'clock, noon, Thursday, April 20, 1911, at which time they will be opened and read publicly, for the Equipment of the Capitol Power House and Conduits, located on the corner of Sheridan Ave. and North Hawk St., in the City of Albany, N. Y.

A separate and distinct proposal is required for each of the following items of work:

1. For Steam Power Equipment.
2. For Electrical Equipment.

Each proposal shall be accompanied by a certified check or cash deposit, in an amount equal to five per cent. of the amount of the proposal, and the contractors to whom awards are made will be required to furnish one or more Surety Bonds in an amount equal to 50% of the amount of the contract, within thirty days from date of notice of award of contract. Failure to furnish bond within the specified time, will cancel the notice of award and cause forfeiture of certified check or cash deposited with bid.

The State reserves the right to reject any or all bids.

On and after March 25, 1911, drawings, specifications and blank forms of proposals may be obtained at the office of the State Architect, Albany, N. Y. A complete set of plans and specifications will be furnished to prospective bidders for the complete work under either item, upon reasonable notice to the State Architect and upon the payment of a deposit of $25.00, which deposit will be forfeited if the drawings and specifications are not returned to the State Architect in good order. Additional copies of plans and specifications will be furnished to contractors or sub-contractors upon reasonable notice to the State Architect and the payment of $10.00 for each set.

After March 25, 1911, plans and specifications will be on file and may be inspected at the office of Nygren, Tenney & Ohmes, 87 Nassau St., New York City, or at the office of C. E. Knox, 76 William St., New York City, Consulting Engineers, and at the office of the State Architect, Capitol, Albany, N. Y.

By order of the Trustees of Public Buildings.

FRANKLIN B. WARE,
State Architect,
Capitol, Albany, N. Y.

Dated, March 17, 1911.

SEWERS FOR HILTON DISTRICT.

TOWNSHIP OF SOUTH ORANGE, N. J.

Sealed proposals will be received by the Township Committee of the Township of South Orange, until 8 o'clock P. M., Tuesday, April 11, 1911, for the construction of sanitary sewers for the Hilton District of South Orange Township, and opened immediately thereafter.

The work includes the construction of

5,106 ft. of 12-in. pipe,
8,930 ft. of 10 in. pipe,
4,532 ft. of 8-in. pipe,
59 manholes,
4 flush tanks.

The attention of all bidders is especially directed to the fact that the capacity of the Township of South Orange in the Joint Trunk Sewer is exceedingly limited and that every precaution and restriction that can be taken to secure water-tight work, will be insisted upon from the contractor.

Plans can be seen and specifications secured at the office of the engineer, Alexander Potter, 114 Liberty St., New York City, and at the office of the Township Clerk, Maplewood, N. J., on and after the 25th of March.

A certified check for $5,000 shall accompany each bid.

The Township reserves the right to reject any or all bids or to accept that one which in their judgment is for the best interest of the Township.

By order of the Township Committee.

WM. H. KEMP, Chairman.
EDWARD ARCULARIUS,
Township Clerk.

ALEXANDER POTTER,
Consulting Engineer.

LEVEE.

CONSTRUCTION PROJECT NO. 2.

SECTION ONE OF FRONT LEVEE.

OFFICE OF BOARD OF TRUSTEES, THE EAST SIDE LEVEE AND SANITARY DISTRICT, SEXTON BUILDING.

East St. Louis, Ill., March 1st, 1911.

Sealed proposals, in duplicate, for the construction of an earth levee having a crown eight (8) feet wide and a length of about three (3) miles, being Construction Project No. 2, Section One of Front Levee, and other auxiliary or incidental improvements, in accordance with Ordinance Number 13 of The East Side Levee and Sanitary District and the plans, profiles and specifications for the same, now on file in the office of the Clerk of said District and known as Construction Project No. 2, will be received at this office until twelve o'clock noon, standard time, April 19th, 1911, and then publicly opened.

Proposals should be based on the following estimates:

200,000 cubic yards of earth embankment, 130 lineal feet of 30-inch cast-iron pipe, 10 cubic yards of concrete, 1 automatic flood gate, 1 hand gate and 1 acre of grubbing.

Proposals for said work must be accompanied by a money deposit in the form of a certified check upon some satisfactory banking institution in the City of East St. Louis, Illinois, or St. Louis, Missouri, and payable at sight to the President of The East Side Levee and Sanitary District, for Five Per Centum (5 per cent.) of the amount of the proposal.

The bidder to whom award is made will be required to enter into a written contract with The East Side Levee and Sanitary District, with good and approved security in the amount of the contract, within ten (10) days after being notified of the acceptance of his proposal.

The contract which the bidder promises to enter into, is fully set forth in the blank forms which can be inspected at this office and will be furnished, if desired, to parties proposing to put in bids. Parties making bids are to be understood as accepting the terms and conditions contained in such form of contract.

Payments will be made monthly on estimates of work fully completed, as prescribed by the engineer in charge and by the specifications therefore ten per cent. of each payment to be retained until all work contracted for has been fully completed and accepted.

The work proposed is in accordance with Ordinance Number 13 of The East Side Levee and Sanitary District, and the plans, profiles and specifications therefore are on file in the office of The East Side Levee and Sanitary District, where they can be inspected by prospective bidders.

LOCATION.

Section One of the Front Levee will extend from Cahokia Creek Diversion Channel in a southerly direction to Mitchell, Madison County, Illinois, a distance of about three (3) miles.

H. D. SEXTON,
President, Board of Trustees, The East Side Levee and Sanitary District.

ELECTRIC GENERATOR AND ENGINE.

Kansas City, Mo.

Sealed proposals will be received by the Clerk of the County Court of Jackson County, Missouri, at his office in the County Court House, Kansas City, Missouri, until noon of Friday, the 31st day of March, 1911, for the manufacture and furnishing to the County of Jackson, State of Missouri, and erecting at the County Court House, Kansas City, Missouri, the following machinery:

One (1) Automatic cut-off Steam Engine, for direct connection to 200 KW. direct current, 220 volt Generator.

One (1) Generator of 200 KW., two hundred and twenty (220) volts, direct current, direct connected Engine.

The necessary foundations will be furnished by the County of Jackson.

All in accordance with the specifications filed with each proposal.

Each bid will be accompanied by a certified check amounting to five per cent. (5%) of the total bid; said check to be made payable to the County Clerk, Leo M. Gilday, as a guarantee that the bidder receiving the award will enter into contract and furnish security satisfactory to the County Court for the furnishing and delivery of the machinery named in the proposal.

Each bidder shall state the time in which the machinery will be furnished.

The bidder shall state the approximate weight of all machines and the time in which delivery can be made.

The Contractor will be required to guarantee all machinery for one year after being installed.

Each bidder must submit with his proposal, specifications, drawings or cuts, clearly showing the general and working parts of the machine which he proposes to furnish.

The right is reserved to the said Court to accept the lowest, or any bid offered, and to reject any or all bids, or any part thereof, or to waive any irregularity or informality in the bids, when it seems to be to the interest of Jackson County so to do.

By order of the Court,
LEO M. GILDAY,
County Clerk.

BRIDGE.

Cape May County, New Jersey.

Bids will be received and opened by the Board of Freeholders of the County of Cape May, New Jersey, on Tuesday, April 4, 1911, at 12 o'clock, noon, in the Court House Building at Cape May C. H., N. J., for the erection of a steel truss pivot swing bridge with trestle work approaches.

Length of steel draw, 137 ft.
Length of trestle work, 271 ft.

Bids to include the erection of the new bridge, removal of the old one, and the construction of a temporary bridge for use during the construction of the new one.

For plans and specifications and further information apply to L. M. Rice, County Engineer, Wildwood, N. J.

Plans and specifications may be seen at the residence of the following members of the Board of Freeholders:

D. W. Rodan, Dir..	Cape May City, N. J.
J. T. Bennett.....	Cape May City, N. J.
J. P. Fox........	Ocean City, N. J.
W. S. Johnson...	Ocean City, N. J.
C. H. Clouting....	Sea Isle City, N. J.
J. F. Eustice....	Sea Isle City, N. J.
H. W. Gandy.....	Tuckahoe, N. J.
L. S. Wentzell....	Dennisville, N. J.
R. S. Miller......	Cape May C. H., N. J.
Daniel Schellenger	Erma, N. J.

A certified check for $1,000, drawn to the order of the County Treasurer, to accompany each bid.

Bids to be enclosed in a sealed envelope and marked on the outside "Proposal for Holly Beach Bridge," with the name and address of the owner.

A deposit of $10 will be required for a set of the plans and specifications, which will be returned upon the return of the plans.

By order of the Board.

L. M. RICE,
County Engineer.

STONE GATEWAY AND LODGE HOUSE.

Columbus, Ind.

Bids will be received by the Board of Directors of Garland Brook Cemetery at the office of William Brockman, Treasurer, April 4th, 1911, at one o'clock P. M., for a stone gateway and lodge house for Garland Brook Cemetery, according to plans and specifications which can be seen at the office of William Brockman, Treasurer, in the City of Columbus, Indiana. A check of 5% of the amount of the bid must accompany the bid, payable to William Brockman, Treasurer. Should the bidder fail to enter into contract the check is forfeited to the Board of Directors. If contract is entered into, the check will be returned to the contractor. The Board reserves the right to reject any and all bids. For further information address the Rev. James E. Delaney, Secretary, Columbus, Indiana.

By order of The Board of Directors of Garland Brook Cemetery, P. H. McCORMACK, President.

CENTRIFUGAL PUMPS.

Sioux City, Iowa.

Bids will be received by the City Clerk up to 9 A. M., April 8, 1911, for the installation of three Centrifugal Pumps with D. C. Motors. Specifications at office of G. B. Healy, Supt. Parks and Public Property, Sioux City, Iowa.

TURBINE WATER WHEELS.

Cincinnati, Ohio.

Sealed proposals will be received at the office of the Director of Public Service, City Hall, Cincinnati, Ohio, until 12 o'clock, noon, of Monday, April 10, 1911, for the construction, delivery and erection of two (2) Turbine Water Wheels in the Head House of the Filtration Plant of the Water Department of the City of Cincinnati, Ohio, which is located at California, Ohio.

Plans, specifications and blank proposals can be obtained at the office of the General Superintendent of Water Works.

Each proposal must contain the full name of the party or parties making the same and all persons interested therein, and must be accompanied by a bond in the sum of $500.00, or a certified check on a solvent bank, as a guarantee that if the proposal be accepted a contract will be entered upon.

Should any proposal be rejected such check will be returned to the bidder and should any proposal be accepted such check will be returned upon the proper execution and securing of the contract.

Bidders must furnish satisfactory evidence of their ability to do the class of work required.

Bidders must use the printed forms as none other wil be received.

The Director of Public Service reserves the right to reject any or all bids.

By order of the Director of Public Service.

JOHN J. WENNER, Clerk.

March 18, 1911.

OFFICE OF THE CONSTRUCTING QUARTERMASTER, Fort Douglas, Utah, March 13, 1911.—Sealed proposals, in triplicate, will be received at this office until 10 a. m., April 11, 1911, and then opened, for labor and materials required in the construction of roads, catch basins, concrete sidewalks, grading and drains complete, at Fort Douglas, Utah. Plans, specifications, blank proposals, etc., may be seen in this office. Certified check for $25.00 to cover the safe return of all papers must be furnished. The United States reserves the right to accept or reject any and all bids. Envelopes containing proposals should be addressed to F. W. ROWELL, A. Q. M., Constructing Quartermaster, Fort Douglas, Utah.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., March 14, 1911.—Sealed proposals will be received in this office until 3 o'clock P. M., on the 25th day of April, 1911, and then opened, for the construction, complete (including plumbing, gas piping, heating apparatus, electric conduits and wiring), of the United States Post Office at Terrell, Texas, in accordance with drawings and specification, copies of which may be obtained from the Custodian of site at Terrell, Texas, or at this office at the discretion of the Supervising Architect. JAMES KNOX TAYLOR, Supervising Architect.

PROPOSALS FOR METAL.—U. S. Engineer Office, Vicksburg, Miss., March 15, 1911. Sealed proposals for furnishing about 307,000 pounds of structural metal, for use at Locks and Dams Nos. 4 & 8, Ouachita River, Ark. and La., will be received at this office until noon, April 14, 1911, and then publicly opened. Information on application. CLARKE S. SMITH, Capt., Engrs.

Situations Open

(Or Vacant)

WANTED—Engineer, experience in sewer construction and municipal work. State salary expected. Address "H. B. 12," Engineering News, New York. 12-1t

For Sale

FOR SALE

Electric Hoist

Single Drum; about 25 H.P. capacity. CONNORS BROS. CO., Lowell, Mass.
12-1t

$5000 Cash

Buys valid patent on best, simplest and cheapest steel sprocket chain for all classes of machinery and autos ever produced; can be sold 30% to 50% under other steel chains; each link stamped in one piece; joints dust proof.

WALTER HAY, M. E.
Seville, Ohio.